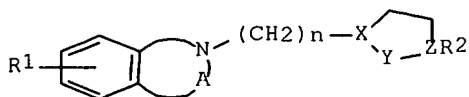


L9 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:31419 CAPLUS
 DN 136:85830
 TI Preparation of bicyclic lactams and sulfonamides as 5-HT1A agonists
 IN Steiner, Gerd; Schellhaas, Kurt; Szabo, Laszlo; Behl, Berthold;
 Garcia-Ladona, Francisco Javier; Unger, Liliane
 PA Knoll GmbH, Germany
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002002529	A1	20020110	WO 2001-EP7571	20010702
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI DE 2000-10031391 A 20000703

GI



AB Title compds. [I; the ring including NA can be a 5-7 membered ring
 contg. O, S, or double bond; A = CO, SO2; X = N; Y = CH2, CH2CH2,
 (CH2)3, CH2CH; Z = N, C, CH; n = 2-4; R1 = H, halo, alkyl, CF3, OH,
 alkoxy, amino; R2 = (substituted) (anellated) Ph, pyridyl, pyrazinyl] and
 salts thereof, were prepd. Thus, isoquinoline in DMF was stirred with
 NaH for 30 min. followed by addn. of 1-[4-(2-chloroethyl)-1-
 piperazinyl]isoquinoline (prepn. given) and stirring for 2 h at
 80.degree. to give 82% 2-[2-(4-(1-isoquinolinyl)-1-piperazinyl)ethyl]-
 1(2H)-isoquinoline.2HCl.2H2O. Tested I showed affinity for the 5-HT1A
 receptor with Ki = 0.1-5.4 nM in HEK 293 cells.

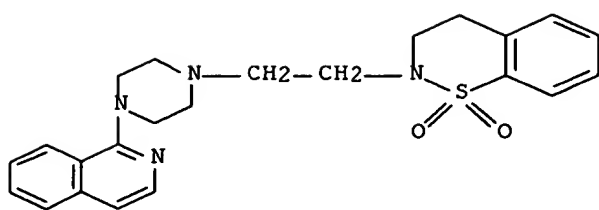
IT **387399-39-5**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(prepn. of bicyclic lactams and sulfonamides as 5-HT1A agonists)

RN 387399-39-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

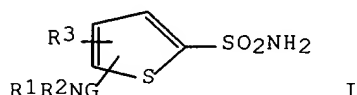


●2 HCl

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

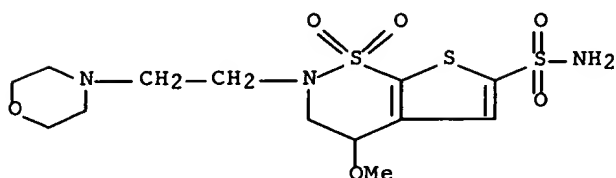
L9 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:433673 CAPLUS
 DN 117:33673
 TI Thiophene sulfonamides useful as carbonic anhydrase inhibitors for the treatment of glaucoma
 IN Dean, Thomas R.; Chen, Hwang Hsing; May, Jesse A.
 PA Alcon Laboratories, Inc., USA
 SO PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9115486	A1	19911017	WO 1991-US2262	19910403
	W: AU, BR, CA, FI, JP, KR, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5153192	A	19921006	US 1990-618765	19901127
	CA 2080223	AA	19911010	CA 1991-2080223	19910403
	AU 9177467	A1	19911030	AU 1991-77467	19910403
	AU 655924	B2	19950119		
	EP 527801	A1	19930224	EP 1991-908317	19910403
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	BR 9106330	A	19930420	BR 1991-6330	19910403
	JP 05508832	T2	19931209	JP 1991-508001	19910403
	JP 2562394	B2	19961211		
	ZA 9102580	A	19920129	ZA 1991-2580	19910408
	IL 97800	A1	19970814	IL 1991-97800	19910409
	NO 9203948	A	19921208	NO 1992-3948	19921009
	FI 9603424	A	19960902	FI 1996-3424	19960902
PRAI	US 1990-506730		19900409		
	US 1990-618765		19901127		
	WO 1991-US2262		19910403		
	FI 1992-4553		19921008		
OS	MARPAT 117:33673				
GI					



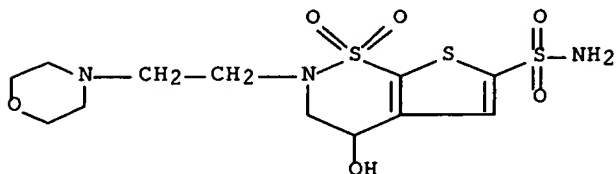
AB The title compds. [I; R1 = H, (un)substituted C1-4 alkyl; R2 = H, (un)substituted C1-8 alkyl, (un)substituted C3-7 alkynyl, Ph, heteroaryl, etc; R3 = H, halo, C1-4 alkyl, C1-8 alkoxy, C1-8 alkylthiol, etc; G = CO, SO2] and a pharmaceutically acceptable salt thereof are effective in lowering and controlling intraocular pressure. An ophthalmic suspension contained 3,4-dihydro-4-methoxy-2-methyl-2H-thieno[3,2-e]-1,2-thiazine-6-sulfonamide-1,1-dioxide (prepn. given) 3.0, hydroxypropyl Me cellulose 0.5, Na2HPO4 0.2, di-Na edetate 0.01, NaCl 0.8, benzalkonium chloride 0.01, polysorbate-80 0.1, NaOH/HCl q.s. to pH 7.02, and water to 100.00 %.
 IT **138890-43-4 138890-54-7**
 RL: BIOL (Biological study)
 (ophthalmic preps. contg., for lowering intraocular pressure)
 RN 138890-43-4 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-methoxy-2-[2-

(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 138890-54-7 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-hydroxy-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

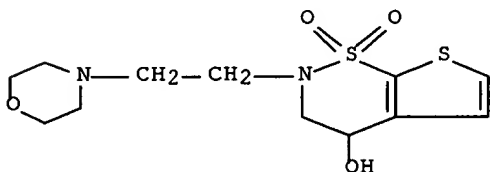


IT 138891-00-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, in prepn. of thiophene sulfonamide for
glaucoma treatment)

RN 138891-00-6 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazin-4-ol, 3,4-dihydro-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

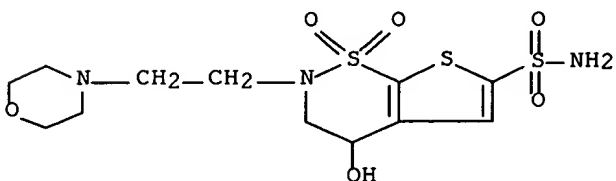


IT 138890-72-9P

RL: PREP (Preparation)
(prepn. of, as intraocular pressure lowering agent)

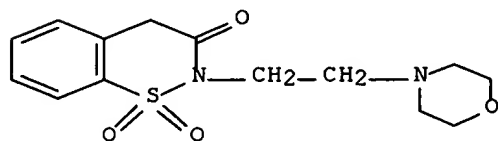
RN 138890-72-9 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-hydroxy-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

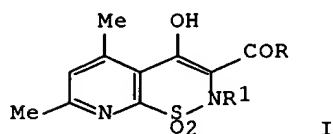
L9 ANSWER 39 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1974:69 CAPLUS
 DN 80:69
 TI New benzothiazines. 4. 1H-2,3-Benzothiazin-4(3H)-one 2,2-dioxide and 2H-1,2-benzothiazin-3(4H)-one 1,1-dioxide nitrogen derivatives with central nervous system activity
 AU Sianesi, Enrico; Redaelli, Riccardo; Magistretti, Maria J.; Massarani, Elena
 CS Res. Div., Recordati S.a.S., Milan, Italy
 SO J. Med. Chem. (1973), 16(10), 1133-7
 CODEN: JMCMAR
 DT Journal
 LA English
 AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. Among the 2 series of title compds., the most active hypnotics and anticonvulsants were 3-allyl-1H-2,3-benzothiazin-4(3H)-one 2,2-dioxide (I) [31846-48-7] and 2-allyl-2H-1,2-benzothiazin-3(4H)-one 1,1-dioxide (II) [31848-18-7]. I had a hypnotic ED50 of 250 mg/kg, i.p. and an anticonvulsant ED70 of 100 mg/kg, i.p. in mice; corresponding values for II were 150 and 160 mg/kg. I and II were prepd. by direct alkylation of the resp. benzothiazinone dioxides with allyl bromide.
 IT **31848-26-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 31848-26-7 CAPLUS
 CN 2H-1,2-Benzothiazin-3(4H)-one, 2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L9 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1989:478013 CAPLUS
 DN 111:78013
 TI Preparation of 2-substituted derivatives of 2H-3-acyl-4-hydroxy-5,7-dimethylpyrido[3,2-e][1,2]thiazine 1,1-dioxides as analgesics
 IN Malinka, Wieslaw; Zawisza, Tadeusz; Wilimowski, Marian
 PA Akademia Medyczna Wroclaw, Pol.
 SO Pol., 3 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 143077	B2	19880130	PL 1986-257400	19860107
OS	CASREACT 111:78013; MARPAT 111:78013				
GI					



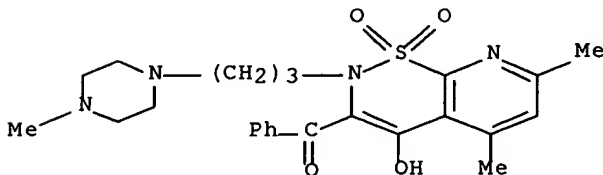
AB Title compds. I (R = Me, Ph; R1 = alkyl, alkylaryl, alkylcarboxy, alkyl ester, alkylamido, alkenyl, alkoxy carbonyl), useful as analgesics (no data), were prepd. 2H-3-Acetyl-4-hydroxy-5,7-dimethylpyrido[3,2-e][1,2]thiazine 1,1-dioxide and MeI are added to NaOMe at room temp. followed by acidification with HOAc to give I (R = R1 = Me) in 60% yield.

IT 121879-81-0P

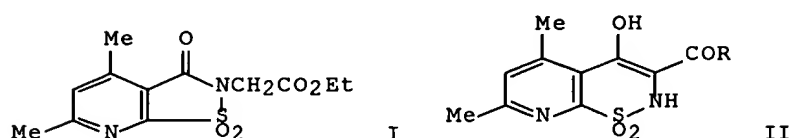
RL: BAC (Biological activity or effector, except adverse); SPN
 (Synthetic
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (prepn. of, as analgesic)

RN 121879-81-0 CAPLUS

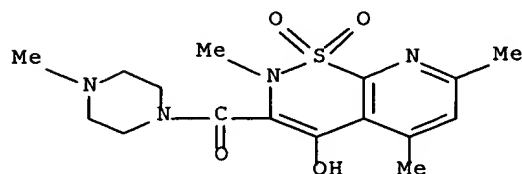
CN Methanone, [4-hydroxy-5,7-dimethyl-2-[3-(4-methyl-1-piperazinyl)propyl]-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA INDEX NAME)



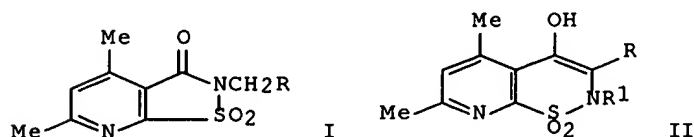
L9 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1987:458954 CAPLUS
 DN 107:58954
 TI Synthesis and properties of 2H-4-hydroxy-2,5,7-trimethylpyrido[3,2-e]-
 1,2-
 thiazine-1,1-dioxide-3-carboxamides
 AU Zawisza, T.; Malinka, W.
 CS Dep. Chem. Drugs, Sch. Med., Wroclaw, Pol.
 SO Farmaco, Ed. Sci. (1986), 41(11), 892-8
 CODEN: FRPSAX; ISSN: 0430-0920
 DT Journal
 LA English
 OS CASREACT 107:58954
 GI



AB Rearrangement of pyridoisothiazolinoneacetate I with EtO⁻ gave
 pyridothiazinecarboxylate II (R = OEt). Reaction of II (R = OEt) with
 amines gave amides II (R = NH-2-pyridyl, NHPh, NH-2-thiazolyl, etc.)
 (III). III show antiinflammatory and immunosuppressive activity.
 IT **109418-08-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and antiinflammatory and immunosuppressant activity of)
 RN 109418-08-8 CAPLUS
 CN Piperazine, 1-[(4-hydroxy-2,5,7-trimethyl-1,1-dioxido-2H-pyrido[3,2-e]-
 1,2-
 thiazin-3-yl)carbonyl]-4-methyl- (9CI) (CA INDEX NAME)



L9 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1987:407141 CAPLUS
 DN 107:7141
 TI A novel system: 2H-pyrido[3,2-e]-1,2-thiazine-1,1-dioxide. Synthesis
 And properties of some derivatives
 AU Zawisza, T.; Malinka, W.
 CS Dep. Chem. Drug, Sch. Med., Wroclaw, Pol.
 SO Farmaco, Ed. Sci. (1986), 41(10), 819-26
 CODEN: FRPSAX; ISSN: 0430-0920
 DT Journal
 LA English
 GI



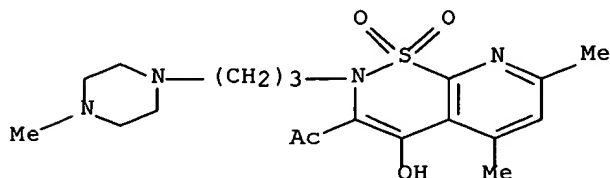
AB Reactions of pyridoisothiazoline dioxides I (R = COMe, COPh) with NaOEt produced rearrangement to give pyridothiazine dioxides II (R1 = H). N-Alkylation of II (R = COMe, COPh; R1 = H) gave II (R1 = Me, allyl, CH2Ph, CH2CO2Et, CH2COPh, CO2Me, etc.). Some II showed strong analgesic activity.

IT 108586-73-8P 108586-78-3P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and analgesic activity of)

RN 108586-73-8 CAPLUS

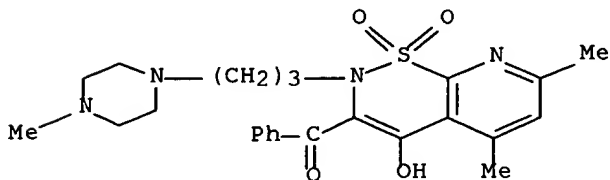
CN Ethanone, 1-[4-hydroxy-5,7-dimethyl-2-[3-(4-methyl-1-piperazinyl)propyl]-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

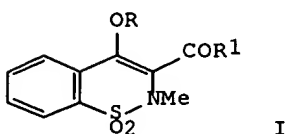
RN 108586-78-3 CAPLUS

CN Methanone, [4-hydroxy-5,7-dimethyl-2-[3-(4-methyl-1-piperazinyl)propyl]-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl-, dihydrochloride (9CI) (CA INDEX NAME)

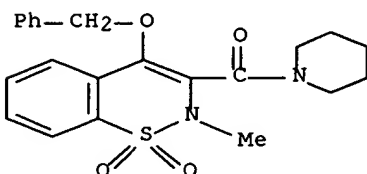


●2 HCl

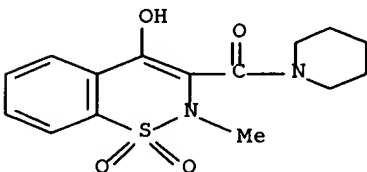
L9 ANSWER 30 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1986:515006 CAPLUS
 DN 105:115006
 TI 1,2-Benzothiazines. Part 2. A new approach to 3-carboxamides of the
 4-hydroxy-2-methyl-2H-1,2-benzothiazine 1,1-dioxide system
 AU Dalla Croce, Piero; La Rosa, Concetta
 CS Dip. Chim. Org. Ind., Univ. Milano, Milan, 20133, Italy
 SO J. Chem. Res., Synop. (1986), (4), 150-1
 CODEN: JRPSDC; ISSN: 0308-2342
 DT Journal
 LA English
 OS CASREACT 105:115006
 GI



AB Reaction of carboxylic acid I (R = CH₂Ph, R₁ = OH), prepd. from I (R = H, R₁ = OMe) by sequential benzylation and hydrolysis, with SOCl₂ or ClCO₂Et-Et₃N followed by amines gave the amides I (R = CH₂Ph, R₁ = NHPh, NHCH₂Ph, piperidino, 5-methylisoxazol-3-ylamino, 2-pyridinylamino, thiazol-2-ylamino) (II) in 55-90% yield. Hydrolysis of II with 15% aq. H₂SO₄ or HCl in 1,4-dioxane at 100.degree. for 2-12 h gave 80-95% hydroxy amides I (R = H, R₁ as before).
 IT **104142-06-5P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)
 RN 104142-06-5 CAPLUS
 CN Piperidine, 1-[[2-methyl-1,1-dioxido-4-(phenylmethoxy)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)

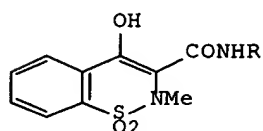


IT **104142-10-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 104142-10-1 CAPLUS
 CN Piperidine, 1-[(4-hydroxy-2-methyl-1,1-dioxido-2H-1,2-benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



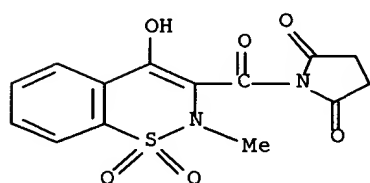
L9 ANSWER 31 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:541990 CAPLUS
 DN 103:141990
 TI 1,2-Benzothiazine-3-carboxamide dioxides
 IN Puigdellivol, Pedro; Goday, Elisa
 PA Laboratorio Fides S. A., Spain
 SO Span., 7 pp.
 CODEN: SPXXAD
 DT Patent
 LA Spanish
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	---	-----	-----
PI	ES 523598	A1	19841101	ES 1983-523598	19830627
GI					



II

AB N,N-Succinyl-2-methyl-4-hydroxy-2H-1,2-benzothiazine-3-carboxamide (I)
 was treated with RNH₂ (R = 2-pyridyl, 5-methyl-3-isoxazolyl, 2-thiazolyl) to
 yield amides II, useful as antiinflammatory agents (no data). I was
 stirred with 2-aminopyridine in dioxane to give II (R = 2-pyridyl).
 IT **98207-09-1**
 RL: RCT (Reactant)
 (transamidation of, by aminopyridine)
 RN 98207-09-1 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-[(4-hydroxy-2-methyl-1,1-dioxido-2H-1,2-
 benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1983:470744 CAPLUS
 DN 99:70744
 TI Derivatives of 1H-1-alkyl(alkenyl or aminoalkyl)-5,7-dimethyl-4-hydroxy-3-

phenylpyrido[2,3-c]-1,2-thiazine 2,2-dioxide, substituted at the 4-oxygen atom

IN Zawisza, Tadeusz; Milian, Anna; Jakobiec, Tadeusz; Gieldanowski, Jerzy
 PA Akademia Medyczna Wroclaw, Pol.

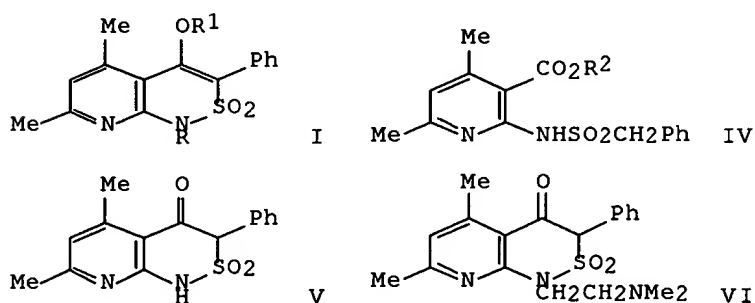
SO Pol., 4 pp.
 CODEN: POXXA7

DT Patent

LA Polish

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 115288	B2	19810331	PL 1978-215422	19780803
OS	CASREACT 99:70744				
GI					



AB Title compds. I [R, R1 = Me, Et, allyl, Me2NCH2CH2, Me2N(CH)3, 3-(N'-methylpiperazino)propyl; or R1 = EtO2CCH2] were prepd. by condensing Me (II) or Et 2-amino-4,6-dimethylnicotinate with PhCH2SO2Cl (III), cyclizing the resulting sulfonamido ester (IV) in an org. solvent contg. NaH at >60.degree., and alkylating the intermediate dihydropyrido[2,3-c]-1,2-thiazin-4-one (V) with the corresponding RX (X = halo) and R1X in an org. solvent contg. an alcoholate. Thus, II 36 and III 35 g were dissolved in 400 mL anhyd. C6H6, treated with 21 g Et3N in 50 mL C6H6, stirred 7 h at 50.degree., Et3NH+ Cl- filtered, C6H6 evapd., and the residue crystd. from MeOH to give 35 g IV (R2 = Me). The latter 9.3 g in 40 mL dry DMF was added to 4.8 g .apprx.50% NaH suspension in 20 mL dry DMF, the mixt. heated 3 h at 60-70.degree., cooled and poured into 1 L H2O, the mixt. filtered, the filtrate acidified with HCl, and the product crystd. from EtOH to give 7.2 g V. V 3 was added to Na 0.23 g in 50 mL dry EtOH, dissoln. heated 0.5 h, part of the solvent distd., .apprx.0.01 mol Me2NCH2CH2Cl in 50 mL dry C6H6 added, the mixt. heated 10 h, the NaCl

formed filtered, the filtrate evapd., the residue dissolved in 40 mL hot 10% HCl, and the salt crystd. from EtOH to give 2.8 g aminoethylated intermediate VI. VI 5.8 g was dissolved in 180 mL dry EtOH contg. 0.7 g Na, 2.2 g MeI in 30 mL EtOH added over 0.5 h, the mixt. heated 3 h, the solvent distd., the residue shaken with 50 mL H₂O and crystd. from MeOH

to

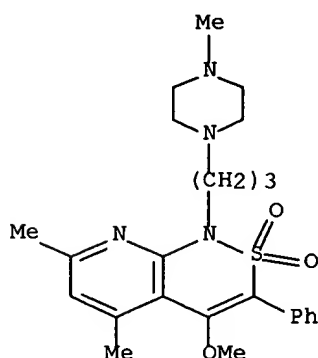
give 3.6 g I (R = Me₂NCH₂CH₂, R₁ = Me).

IT 76967-72-1P

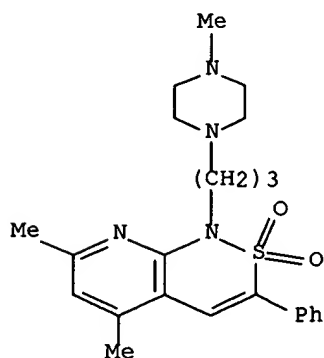
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 76967-72-1 CAPLUS

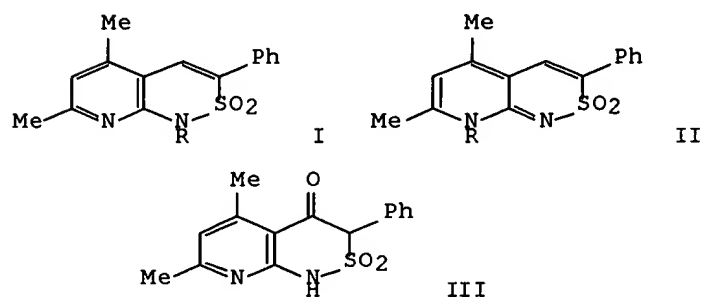
CN 1H-Pyrido[2,3-c][1,2]thiazine, 4-methoxy-5,7-dimethyl-1-[3-(4-methyl-1-piperazinyl)propyl]-3-phenyl-, 2,2-dioxide (9CI) (CA INDEX NAME)



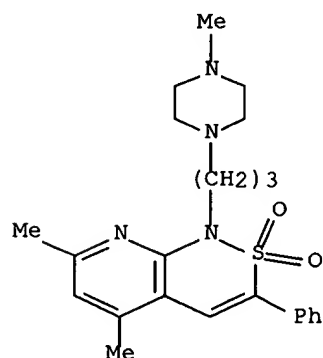
L9 ANSWER 33 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1981:167649 CAPLUS
 DN 94:167649
 TI Pharmacological activity in the group of new pyrido[2,3-c]-1,2-thiazine
 1,1-dioxide derivatives
 AU Kowalczyk-Bronisz, Stefania H.
 CS Inst. Immunol. Exp. Ther., Pol. Acad. Sci., Wroclaw, 53-114, Pol.
 SO Arch. Immunol. Ther. Exp. (1980), 28(5), 783-90
 CODEN: AITEAT; ISSN: 0004-069X
 DT Journal
 LA English
 AB The effects of 25 title compds. ranged from strongly immunosuppressive
 to immunostimulating, and from strongly anti-inflammatory to
 pro-inflammatory. The structural basis for these diverse effects was
 obscure.
 IT 77201-29-7
 RL: BIOL (Biological study)
 (immunity and inflammation response to)
 RN 77201-29-7 CAPLUS
 CN 1H-Pyrido[2,3-c][1,2]thiazine, 5,7-dimethyl-1-[3-(4-methyl-1-
 piperazinyl)propyl]-3-phenyl-, 2,2-dioxide (9CI) (CA INDEX NAME)



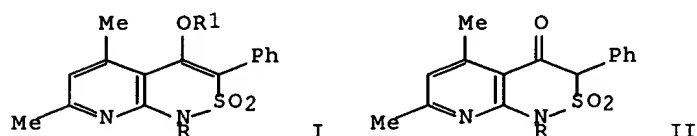
L9 ANSWER 34 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1981:156843 CAPLUS
 DN 94:156843
 TI Pyridothiazines. Part VI. Syntheses and properties of
 pyrido[2,3-c]-1,2-thiazine 1,1-dioxide derivatives
 AU Zawisza, Tadeusz; Milian, Anna; Jakobiec, Tadeusz
 CS Inst. Drugs, Sch. Med., Wroclaw, 50137, Pol.
 SO Pol. J. Chem. (1980), 54(7-8), 1413-24
 CODEN: PJCHDQ
 DT Journal
 LA English
 GI



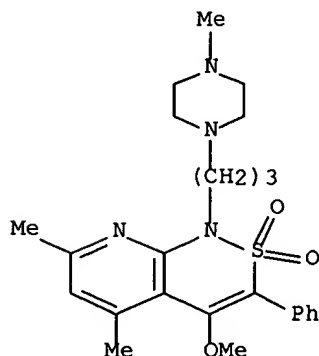
AB Pyridothiazine dioxides I and II (R = Me, Et, allyl, CH₂CO₂Et, CH₂CO₂H, CH₂CH₂NMe₂, (CH₂)₃NMe₂, 4-methylpiperazinopropyl) were prep'd. from the ketone III by redn., alkylation, and dehydration or by alkylation, redn., and dehydration.
 IT **77201-29-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 77201-29-7 CAPLUS
 CN 1H-Pyrido[2,3-c][1,2]thiazine, 5,7-dimethyl-1-[3-(4-methyl-1-piperazinyl)propyl]-3-phenyl-, 2,2-dioxide (9CI) (CA INDEX NAME)



L9 ANSWER 35 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1981:139716 CAPLUS
 DN 94:139716
 TI Pyridothiazines. Part V. Syntheses and properties of 7-alkoxy derivatives of pyrido[2,3-c]-1,2-thiazine 1,1-dioxide
 AU Zawisza, Tadeusz; Milian, Anna; Jakobiec, Tadeusz
 CS Sch. Med., Inst. Drug, Wroclaw, 50137, Pol.
 SO Pol. J. Chem. (1980), 54(6), 1267-73
 CODEN: PJCHDQ
 DT Journal
 LA English
 GI

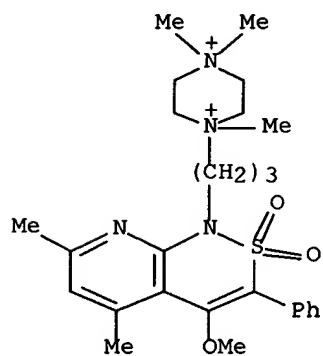


AB Pyridothiazine dioxides I (R = Me, Et, allyl, CH₂CH₂NMe₂, (CH₂)₃NMe₂, 4-methylpiperazinopropyl; R₁ = Me, Et, allyl, CH₂CH₂NMe₂, CH₂CO₂Et) were prepd. by alkylating II. I (R = CH₂CH₂NMe₂, (CH₂)₃NMe₂, 4-methylpiperazinopropyl, R₁ = Me) were converted to their quaternary methiodides. The corresponding quaternary II were also prepd. I (R = CH₂CH₂NMe₂, R₁ = Me) had the strongest antiinflammatory and immunosuppressant activity.
 IT **76967-72-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and quaternization of)
 RN 76967-72-1 CAPLUS
 CN 1H-Pyrido[2,3-c][1,2]thiazine, 4-methoxy-5,7-dimethyl-1-[3-(4-methyl-1-piperazinyl)propyl]-3-phenyl-, 2,2-dioxide (9CI) (CA INDEX NAME)



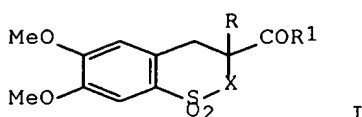
IT **76967-76-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 76967-76-5 CAPLUS
 CN Piperazinium, 1-[3-(4-methoxy-5,7-dimethyl-2,2-dioxido-3-phenyl-1H-

pyrido[2,3-c][1,2]thiazin-1-yl)propyl]-1,4,4-trimethyl-, diiodide (9CI)
(CA INDEX NAME)

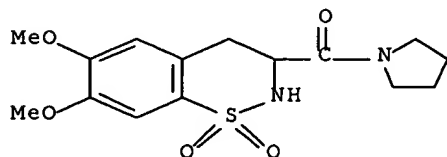


●2 I⁻

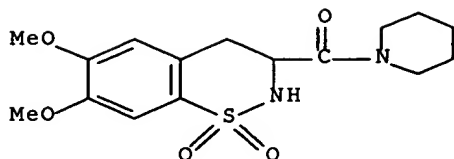
L9 ANSWER 36 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1981:103268 CAPLUS
 DN 94:103268
 TI Derivatives of 6,7-dimethoxy-1-thiaisochroman-1,1-dioxide and
 3,4-dihydro-6,7-dimethoxy-2H-1,2-benzothiazine-1,1-dioxide
 AU Poepel, W.; Laban, G.; Faust, G.; Dietz, G.
 CS Direktionsber. Forsch. Entwickl., VEB Pharm. Kombinat GERMED, Dresden,
 Ger. Dem. Rep.
 SO Pharmazie (1980), 35(5-6), 266-78
 CODEN: PHARAT; ISSN: 0031-7144
 DT Journal
 LA German
 GI



AB The title compds. (I; X = O, NH, NMe, NCH₂Ph; R = H, Me; R₁ =
 substituted
 NH₂, OMe, OPr, OCH₂Ph, etc.) were prepd. e.g. by cyclizing
 3,4-(MeO)₂C₆H₃CH₂CRXCN (X = Cl, OH) with conc. H₂SO₄ and then
 derivatizing
 the resulting acid. I (X = O, R₁ = ester group) showed anticonvulsant
 and
 central nervous system (CNS) depressant activity (no data), whereas I (X
 =
 substituted NH) had weaker CNS activity with antitussive activity.
 IT **76667-17-9P 76667-18-0P 76667-19-1P**
76667-22-6P 76667-40-8P 76667-41-9P
76667-50-0P 76667-73-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 76667-17-9 CAPLUS
 CN Pyrrolidine, 1-[(3,4-dihydro-6,7-dimethoxy-1,1-dioxido-2H-1,2-
 benzothiazin-
 3-yl)carbonyl]- (9CI) (CA INDEX NAME)

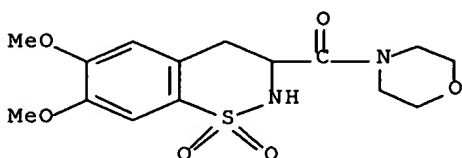


RN 76667-18-0 CAPLUS
 CN Piperidine, 1-[(3,4-dihydro-6,7-dimethoxy-1,1-dioxido-2H-1,2-
 benzothiazin-
 3-yl)carbonyl]- (9CI) (CA INDEX NAME)



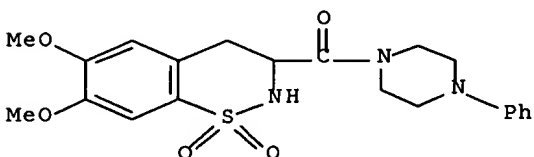
RN 76667-19-1 CAPLUS

CN Morpholine, 4-[(3,4-dihydro-6,7-dimethoxy-1,1-dioxido-2H-1,2-benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



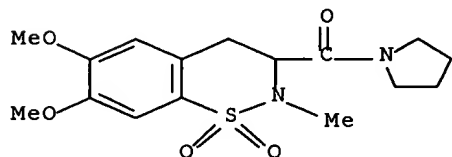
RN 76667-22-6 CAPLUS

CN Piperazine, 1-[(3,4-dihydro-6,7-dimethoxy-1,1-dioxido-2H-1,2-benzothiazin-3-yl)carbonyl]-4-phenyl- (9CI) (CA INDEX NAME)



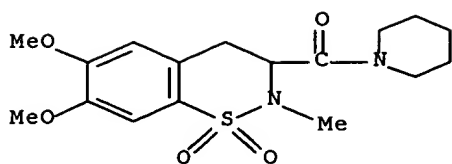
RN 76667-40-8 CAPLUS

CN Pyrrolidine, 1-[(3,4-dihydro-6,7-dimethoxy-2-methyl-1,1-dioxido-2H-1,2-benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



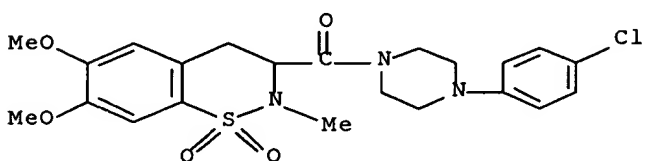
RN 76667-41-9 CAPLUS

CN Piperidine, 1-[(3,4-dihydro-6,7-dimethoxy-2-methyl-1,1-dioxido-2H-1,2-benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



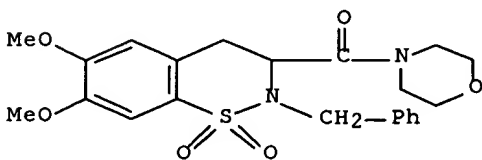
RN 76667-50-0 CAPLUS

CN Piperazine, 1-(4-chlorophenyl)-4-[(3,4-dihydro-6,7-dimethoxy-2-methyl-1,1-dioxido-2H-1,2-benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



RN 76667-73-7 CAPLUS

CN Morpholine, 4-[[3,4-dihydro-6,7-dimethoxy-1,1-dioxido-2-(phenylmethyl)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 37 OF 49 CAPLUS COPYRIGHT 2002 ACS

AN 1974:413538 CAPLUS

DN 81:13538

TI 4-Hydroxy-3-carbamoyl-2H-1,2-benzothiazine 1,1-dioxides and
4-hydroxy-3(2H)-1,2-benzothiazine carboxylate-1,1-dioxides

IN Sircar, Jagadish C.; Zinnes, Harold; Shavel, John, Jr.

PA Warner Lambert Co.

SO U.S., 18 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3808205	A	19740430	US 1972-251163	19720508
PRAI	US 1971-179570		19710910		

GI For diagram(s), see printed CA Issue.

AB 4-(1-Pyrrolidinyl)-2-methyl-2H-1,2-benzothiazine-3-carbonyl chloride (I,
R

= 1-pyrrolidinyl, R1 = COCl), obtained by reaction of I (R =
1-pyrrolidinyl, R1 = H) with COCl₂, was treated with the appropriate
primary or secondary amines to give I [R = 1-pyrro-lidinyl; R1 =

CONR2R3,

R2R3 = Me, Ph, Et, 1-adamantyl, 2-thienyl, H, or NR2R3 = 1-indolinyl,
3,4-dihydro-1(2H)-quinolyl, 1-aziridinyl), which were hydrolyzed (HCl)

to

give I (R = OH), useful as antiinflammatory agents. Thus, I (R =
1-pyrrolidinyl, R1 = COCl) was refluxed 16 hr with PhNHMe in THF contg.
Et3N to give I (R = 1-pyrrolidinyl, R1 = CONMePh), which was refluxed 1

hr

in 3N HCl to give I (R = OH, R1 = CONMePh).

IT 40713-59-5P 40713-60-8P 40713-62-0P

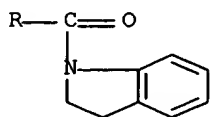
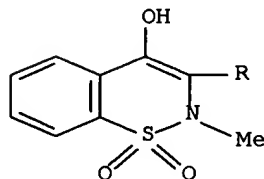
40713-69-7P 40713-70-0P 40713-71-1P

52853-59-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 40713-59-5 CAPLUS

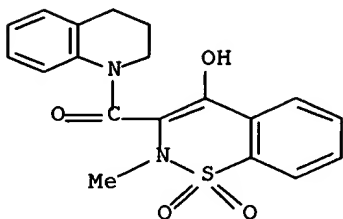
CN 1H-Indole, 2,3-dihydro-1-[(4-hydroxy-2-methyl-1,1-dioxido-2H-1,2-
benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



RN 40713-60-8 CAPLUS

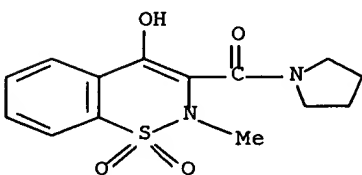
CN Quinoline, 1,2,3,4-tetrahydro-1-[(4-hydroxy-2-methyl-1,1-dioxido-2H-1,2-

benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



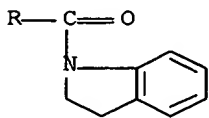
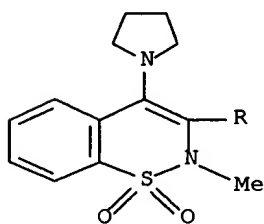
RN 40713-62-0 CAPLUS

CN Pyrrolidine, 1-[(4-hydroxy-2-methyl-1,1-dioxido-2H-1,2-benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



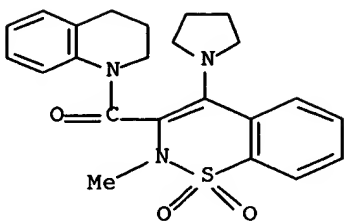
RN 40713-69-7 CAPLUS

CN 1H-Indole, 2,3-dihydro-1-[[2-methyl-1,1-dioxido-4-(1-pyrrolidinyl)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



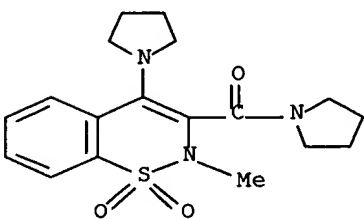
RN 40713-70-0 CAPLUS

CN Quinoline, 1,2,3,4-tetrahydro-1-[[2-methyl-1,1-dioxido-4-(1-pyrrolidinyl)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



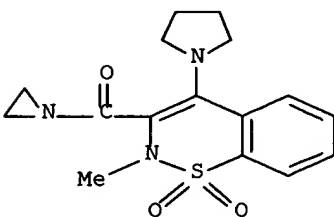
RN 40713-71-1 CAPLUS

CN Pyrrolidine, 1-[[2-methyl-1,1-dioxido-4-(1-pyrrolidinyl)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



RN 52853-59-5 CAPLUS

CN Aziridine, 1-[[2-methyl-1,1-dioxido-4-(1-pyrrolidinyl)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



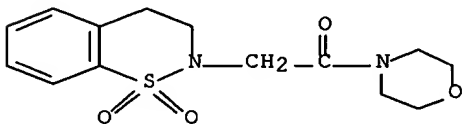
L9 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1974:48016 CAPLUS
 DN 80:48016
 TI Therapeutically active dihydrobenzothiazine-s-dioxides
 IN Sianesi, Enrico; Da Re, Paulo; Setnikar, Ivo; Massarani, Elena
 PA Recordati, S. A. Chemical and Pharmaceutical Co.
 SO U.S., 7 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3770733	A	19731106	US 1971-176254	19710830

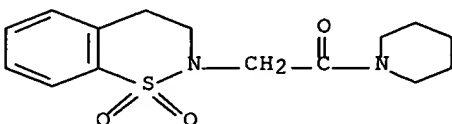
AB Benzothiazinylalkylcarboxamides I (X = CH₂, R = H, R₁ = H, Me, Et, Pr, CHMe₂, Bu, CHMeEt, CMe₃, allyl, propargyl, NMe₂, NH₂, NH₂Et, NMePh, N:CHMe,
 NRR₁ = NMe₂, NEt₂, N(CHMe₂)₂, morpholino, piperidino, pyrrolidino, 4-methylpiperazino; X = CH₂CH₂, R = H, R₁ = CHMe₂; X = CMe₂, NRR₁ = NH₂, NHMe, NHCHMe₂, NHNMe₂) were prepd. for use as hypnotics and anticonvulsants. Thus, o-NCCH₂C₆H₄NH₂.HCl was diazotized, and treated with SO₂ and CuCl to give o-NCCH₂C₆H₄SO₂Cl, which on treatment with NH₃ gave o-NCCH₂C₆H₄SO₂NH₂, followed by cyclization to II (R₂ = H).

Treatment
 with BrCH₂CO₂Et gave II (R₂ = CH₂CO₂Et), which with NH₃ gave I (X = CH₂, R = R₁ = H), having an anticonvulsant ED₅₀ in mice of 50 mg/kg ip.
 IT **35263-33-3P 35263-34-4P 35263-35-5P 35263-36-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 35263-33-3 CAPLUS
 CN Morpholine, 4-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-
 (9CI) (CA INDEX NAME)



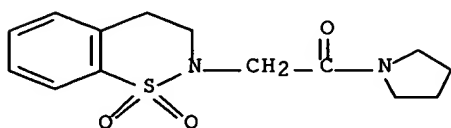
RN 35263-34-4 CAPLUS
 CN Piperidine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-
 (9CI) (CA INDEX NAME)



RN 35263-35-5 CAPLUS

CN Pyrrolidine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-

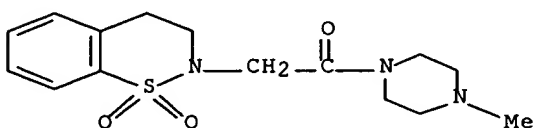
(9CI) (CA INDEX NAME)



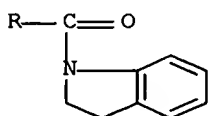
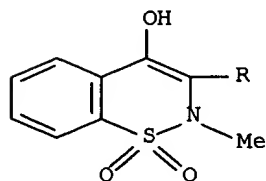
RN 35263-36-6 CAPLUS

CN Piperazine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-4-

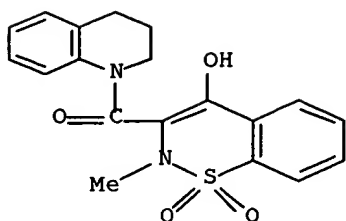
methyl- (9CI) (CA INDEX NAME)



L9 ANSWER 40 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1973:92403 CAPLUS
 DN 78:92403
 TI 1,2-Benzothiazines. 6. 3-Carbamoyl-4-hydroxy-2H-1,2-benzothiazine
 1,1-dioxides as antiinflammatory agents
 AU Zinnes, Harold; Lindo, Neil A.; Sircar, Jagadish C.; Schwartz, Martin
 L.;
 Shavel, John, Jr.
 CS Dep. Org. Chem., Warner-Lambert Res. Inst., Morris Plains, N. J., USA
 SO J. Med. Chem. (1973), 16(1), 44-8
 CODEN: JMCMAR
 DT Journal
 LA English
 AB 4-Hydroxy-2-methyl-N-phenyl-2H-1,2-benzothiazine-3-carboxanilide
 1,1-dioxide (I) [38859-30-2] (100 mg/kg orally) was approx. as active an
 antiinflammatory agent as phenylbutazone [50-33-9] against
 carrageenin-induced rat paw edema. Various derivs. of I tested were
 less
 active or inactive. A new method for synthesis of I and its derivs.
 involved the reaction of the known 2-substituted-4-(1-pyrrolidino)-2H-
 1,2-
 benzothiazine 1,1-dioxide with phosgene in the presence of Et₃N to form
 the 3-chloroformyl deriv., which reacted with the appropriate amine;
 acid
 hydrolysis yielded the desired compd.
 IT **40713-59-5 40713-60-8 40713-62-0**
40713-69-7 40713-70-0 40713-71-1
 RL: BIOL (Biological study)
 (inflammation inhibitor)
 RN 40713-59-5 CAPLUS
 CN 1H-Indole, 2,3-dihydro-1-[(4-hydroxy-2-methyl-1,1-dioxido-2H-1,2-
 benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)

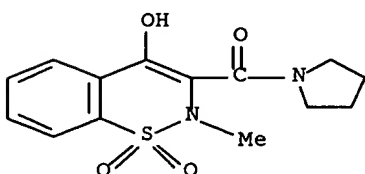


RN 40713-60-8 CAPLUS
 CN Quinoline, 1,2,3,4-tetrahydro-1-[(4-hydroxy-2-methyl-1,1-dioxido-2H-1,2-
 benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



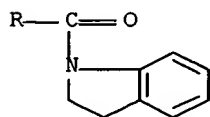
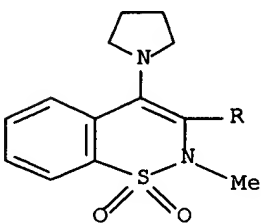
RN 40713-62-0 CAPLUS

CN Pyrrolidine, 1-[(4-hydroxy-2-methyl-1,1-dioxido-2H-1,2-benzothiazin-3-yl)carbonyl]- (9CI) (CA INDEX NAME)



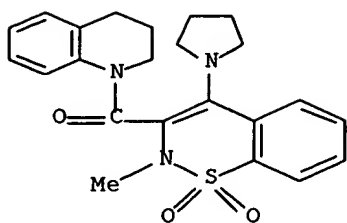
RN 40713-69-7 CAPLUS

CN 1H-Indole, 2,3-dihydro-1-[[2-methyl-1,1-dioxido-4-(1-pyrrolidinyl)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



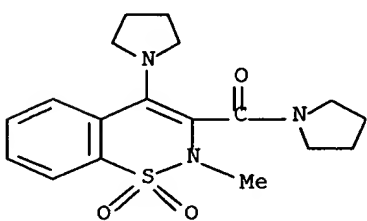
RN 40713-70-0 CAPLUS

CN Quinoline, 1,2,3,4-tetrahydro-1-[[2-methyl-1,1-dioxido-4-(1-pyrrolidinyl)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



RN 40713-71-1 CAPLUS

CN Pyrrolidine, 1-[[2-methyl-1,1-dioxido-4-(1-pyrrolidinyl)-2H-1,2-benzothiazin-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1972:72535 CAPLUS
 DN 76:72535
 TI 3,4-Dihydro-2H-1,2-benzothiazine-2-acetamide S,S-dioxide derivatives
 IN Sianesi, Enrico; Da Re, Paolo; Setnikar, Ivo; Massarani, Elena
 PA Recordati S. A. Chemical and Pharmaceutical Co.
 SO Ger. Offen., 43 pp.
 CODEN: GWXXBX

DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	DE 2124953	A	19711216	DE 1971-2124953	19710519
	DE 2124953	B2	19741114		
	DE 2124953	C3	19750703		
	BE 762273	A1	19710701	BE 1971-99171	19710129
	ES 388284	A1	19740216	ES 1971-388284	19710215
	CH 523906	A	19720615	CH 1971-523906	19710219
	CH 527841	A	19720915	CH 1971-527841	19710219
	IL 36248	A1	19730730	IL 1971-36248	19710222
	NL 7102509	A	19711214	NL 1971-2509	19710225
	FR 2094180	A5	19720204	FR 1971-13767	19710419
	FR 2094180	B1	19741018		
	ZA 7103102	A	19720126	ZA 1971-3102	19710512
	GB 1337478	A	19731114	GB 1971-19514	19710608

PRAI IT 1970-25826 19700611

GI For diagram(s), see printed CA Issue.

AB Title compds. (I), sedatives and hypnotics, were prepd. by reaction of amines with I (R = OEt or Cl) or by reaction of 3,4-dihydro-2H-1,2-benzothiazine S,S-dioxide (II) with Na alkoxides and ClQCOR. Thus, 7.15

g

I (Q = CH₂, R = OEt) kept 4 hr with NH₃-satd. MeOH at room temp. and briefly refluxed, gave 5.3 g I (Q = CH₂, R = NH₂). Similarly prepd.

were

27 addnl. I, e.g. (Q and R given): CH₂Et, NH₂; CH₂, NHHNH₂; CH₂, NHPr (III); CMe₂, NMe₂; CH₂, morpholino. Many I were tested in mice, e.g.

III

had LD₅₀ 560 mg/kg on i.p. administration, the hypnotic effect was ED₅₀

=

122 mg/kg and the sedative effect ED₅₀ = 28 mg/kg on oral administration.

IT **35263-33-3P 35263-34-4P 35263-35-5P**

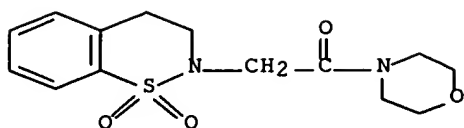
35263-36-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 35263-33-3 CAPLUS

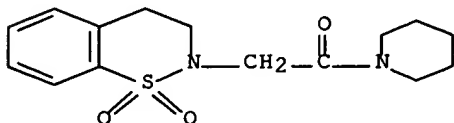
CN Morpholine, 4-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-

(9CI) (CA INDEX NAME)



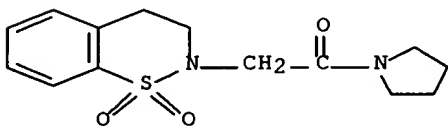
RN 35263-34-4 CAPLUS

CN Piperidine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-
(9CI) (CA INDEX NAME)



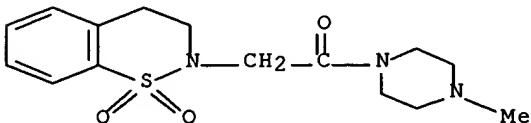
RN 35263-35-5 CAPLUS

CN Pyrrolidine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-
(9CI) (CA INDEX NAME)



RN 35263-36-6 CAPLUS

CN Piperazine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-4-methyl- (9CI) (CA INDEX NAME)



L9 ANSWER 42 OF 49 CAPLUS COPYRIGHT 2002 ACS

AN 1971:476818 CAPLUS

DN 75:76818

TI 2,1-Benzothiazine derivatives

IN Nakanishi, Michio; Kobayashi, Ryosuke

PA Yoshitomi Pharmaceutical Industries, Ltd.

SO Jpn. Tokkyo Koho, 2 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 46022150	B4	19710623	JP	19690409

GI For diagram(s), see printed CA Issue.

AB I (Y = amino group) (Ia) (X = H, Cl, Me), useful as diuretics, antiinflammatory agents, antispasmodics, etc., were manufd. by aminolysis

of I (Y = halo) (Ib). E.g., Ib (Y = Cl, X = H) was heated 3 hr at 70-80.degree. with 30% NHMe₂ in an autoclave to give Ia (Y = piperidino,

X

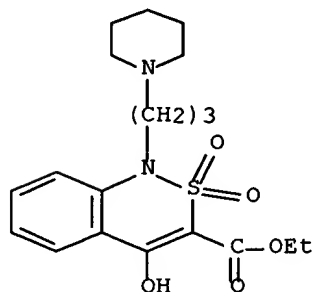
= H). Similarly prepd. were 4 other Ia.

IT **33367-70-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 33367-70-3 CAPLUS

CN 1H-2,1-Benzothiazine-3-carboxylic acid, 4-hydroxy-1-(3-piperidinopropyl)-,
ethyl ester, 2,2-dioxide (8CI) (CA INDEX NAME)



L9 ANSWER 43 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1971:476815 CAPLUS
 DN 75:76815
 TI 1,2-Benzothiazine compounds
 IN Hasegawa, Gen; Munakata, Tomohiko; Furuta, Tetsuya; Tsuda, Tachimi
 PA Yoshitomi Pharmaceutical Industries, Ltd.
 SO Jpn. Tokkyo Koho, 3 pp.
 CODEN: JAXXAD

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 46022027	B4	19710622	JP	19690118

GI For diagram(s), see printed CA Issue.

AB I (X = Cl, Br, OMe, Me, H; Y = aminoalkyl; Z = O, S), useful as diuretics,

antiinflammatants, antibacterials, etc., are manufd. 3-(2-Thienylcarbonyl)-

3,4-dihydro-2H - 1,2 - benzothiazin - 4 - one 1,1-dioxide, in a mixt. of NaOH, EtOH, and H2O, is treated with 2-morpholinoethyl chloride to give

I (X = H, Y = morpholinoethyl, Z = S); hydrochloride m. 235-7.degree.. Similarly prepd. are 10 more I.

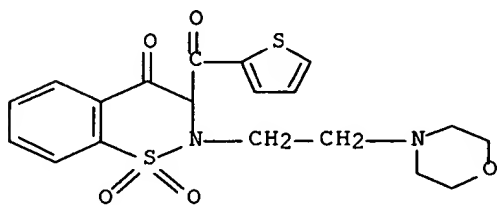
IT **33215-46-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 33215-46-2 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-(2-morpholinoethyl)-3-(2-thenoyl)-

, 1,1-dioxide, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

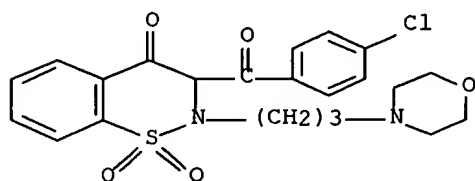
L9 ANSWER 45 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1971:141828 CAPLUS
 DN 74:141828
 TI 1,2-Benzothiazines
 IN Hasegawa, Gen; Munakata, Tomohiko; Yoshida, Tetsuya; Tsumagari, Tatsumi
 PA Yoshitomi Pharmaceutical Industries, Ltd.
 SO Jpn. Tokkyo Koho, 5 pp.
 CODEN: JAXXAD

DT Patent
 LA Japanese

FAN.CNT 1

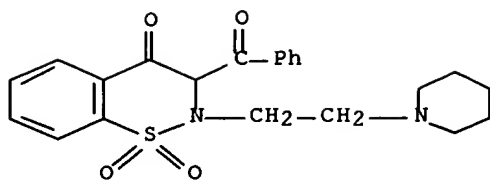
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 46000029	B4	19710105	JP	19680318

GI For diagram(s), see printed CA Issue.
 AB 3-Benzoyl-3,4-dihydro-2H-1,2-benzothiazin-4-one 1,1-dioxide (5 g) in 19 ml
 N NaOH, 13 ml H₂O, and 63 ml EtOH was stirred overnight with
 prperidinoethyl chloride (from 3.7 g HCl salt) to give 3.5 g I (R = Ph,
 X = CH₂CH₂, NY₂ = piperidino), m. 215-18.degree.. Similarly, I were
 prepd.
 (R, X, Y, or NY₂, and m.p. given): Me, (CH₂)₃, Pr, 173-5.degree.;
 p-ClC₆H₄, (CH₂)₃, morpholino, 210-12.degree. (HCl salt); Ph, CH₂CHMeCH₂,
 4-phenyl-1-piperazino, 218-21.degree. (HCl salt). Also prepd. were 7-
 Cl,
 6-MeO, and other analogs, in which R was Me₃C, 3,4-ClC₆H₃, p-anislyl,
 p-tolyl, cyclohexyl, or similar residues.
 IT **31848-42-7P 31858-76-1P 32650-75-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 31848-42-7 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 3-(p-chlorobenzoyl)-2,3-dihydro-2-(3-
 morpholinopropyl)-, 1,1-dioxide, hydrochloride (8CI) (CA INDEX NAME)



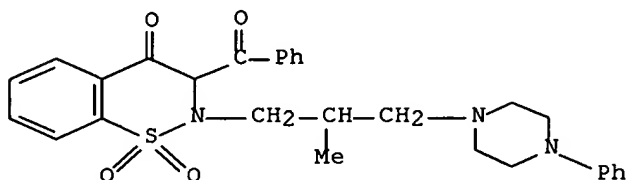
●x HCl

RN 31858-76-1 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 3-benzoyl-2,3-dihydro-2-(2-piperidinoethyl)-,
 1,1-dioxide (8CI) (CA INDEX NAME)



RN 32650-75-2 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 3-benzoyl-2,3-dihydro-2-[2-methyl-3-(4-phenyl-1-piperazinyl)propyl]-, 1,1-dioxide, hydrochloride (8CI) (CA INDEX NAME)



●x HCl

L9 ANSWER 46 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1970:520647 CAPLUS
 DN 73:120647
 TI Isomeric 3,4-dihydro-2H-1,2-benzothiazine 1,1-dioxides valuable for
 their
 chemotherapeutic qualities
 IN Lombardino, Joseph G.
 PA Pfizer, Chas., and Co., Inc.
 SO Ger. Offen., 67 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	DE 1943265	A	19700813	DE 1969-1943265	19690826
	DE 1943265	B2	19810514		
	DE 1943265	C3	19820204		
	US 3591584	A	19710706	US 1968-767594	19680827
	GB 1257180	A	19711215	GB 1968-1257180	19681231
	NO 129746	B	19740520	NO 1969-3274	19690812
	BR 6911817	A0	19730213	BR 1969-211817	19690825
	FI 51189	B	19760802	FI 1969-2460	19690825
	BE 737962	A	19700226	BE 1969-737962	19690826
	NL 6912981	A	19700303	NL 1969-12981	19690826
	NL 157013	B	19780615		
	ES 370861	A1	19710701	ES 1969-370861	19690826
	AT 294113	B	19711110	AT 1969-8146	19690826
	CH 520705	A	19720331	CH 1969-520705	19690826
	AT 298503	B	19720510	AT 1970-9366	19690826
	CH 527840	A	19720915	CH 1969-527840	19690826
	DE 1967325	B2	19810813	DE 1969-1967325	19690826
	DE 1967325	C2	19820318		
	DK 145297	B	19821025	DK 1969-4570	19690826
	DK 145297	C	19830314		
	FR 2016455	A5	19700508	FR 1969-29284	19690827
	FR 2016455	B1	19740201		
	JP 50000677	B4	19750110	JP 1969-67265	19690827
	SE 373854	B	19750217	SE 1969-11871	19690827
	SE 402459	C	19781012	SE 1973-511	19730115
	JP 51042114	B4	19761113	JP 1973-82782	19730724

PRAI US 1968-767594 19680827

GI For diagram(s), see printed CA Issue.

AB I or II (.apprx.160) (Z = S or O) nonsteroidal antiinflammatory agents, were prepd. by treating III where X = H,H and Q = O or vice versa with R2NCZ in the presence of base or by treating III where X = O and Q = carbalkoxy or vice versa with amines. Thus, III (X = H,H; Q = O; R1 =

Me,

R3 = H) (IV) was prepd. by cyclodehydration of o-HO2CCH2C6H4SO2NHMe (prepd. by carboxylation of 2-MeC6H4SO2NHMe in the presence of BuLi). Treating IV with o-ClC6H4NCO in Me2SO in the presence of Et3N 20 hr at 25.degree. gave 46% II (Z = O, R1 = Me, R2 = o-ClC6H4NH, R3 = H). III

(X

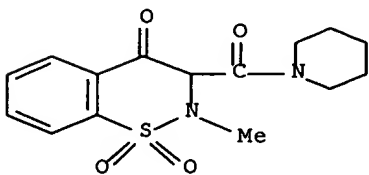
= O; Q = H, CO2Me; R1 = R3 = H), prepd. by rearrangement of V in the presence of NaOMe in dry DMF, was treated with MeI to give the 2-Me deriv., which was treated with PhNH2 in dry AcNMe2 in the presence of p-MeC6H4SO3H to give 35% I (Z = O; R1 = Me; R2 = NHPh, R3 = H).

IT **29152-13-4P**

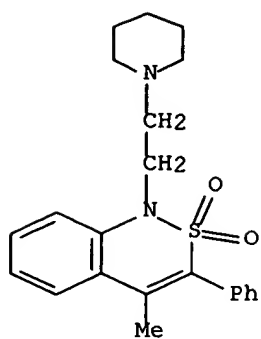
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 29152-13-4 CAPLUS

CN Piperidine, 1-[(3,4-dihydro-2-methyl-4-oxo-2H-1,2-benzothiazin-3-yl)carbonyl]-, S,S-dioxide (8CI) (CA INDEX NAME)

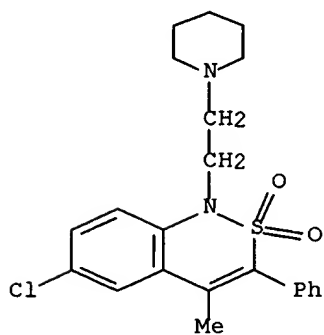


L9 ANSWER 47 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1968:402923 CAPLUS
 DN 69:2923
 TI Benzothiazines. I. 1H-2,1-benzothiazine 2,2-dioxides
 AU Sianesi, Enrico; Redaelli, Riccardo
 CS Div. Ric., Recordati s.a.s., Milan, Italy
 SO Ann. Chim. (Rome) (1967), 57(11), 1426-30
 CODEN: ANCRAI
 DT Journal
 LA Italian
 GI For diagram(s), see printed CA Issue.
 AB Mixts. of compds. of the general formula I, which are prep'd., are heated in NaOH to give compds. of the general formula II. Thus, 3.81 g. PhCH₂SO₂Cl is slowly added to a soln. of 2.7 g. o-H₂NC₆H₄Ac in 10 ml. pyridine as the mixt. is cooled and the mixt. kept 10-15 min. to give 76% o-(phenyl-methylsulfonylamino)acetophenone, m. 119-20.degree. (aq. EtOH). Similarly prep'd. are the following I (R, R₁, R₂, R₃, m.p., and % yield given): Ph, H, H, Cl, 133-5.degree. (aq. EtOH), 72; Ph, H, H, AcNH, 156-8.degree. (aq. EtOH), 46; Ph, H, AcNH, H, 147-8.degree. (aq. EtOH), 52; H, H, H, Cl, 129-31.degree. (iso-PrOH), 40; H, Me, H, Cl, 75-7.degree. (iso-PrOH), 67. A soln. of 9.0 g. I (R = Ph, R₁ = R₂ = H, R₃ = AcNH) in 40 ml. 4N NaOH is refluxed 5 hrs. to give 85% 3-phenyl-4-methyl-6-amino-1H-2,1-benzothiazine 2,2-dioxide, m. 194-6.degree. (aq. EtOH). Similarly prep'd. are the following II (R, R₁, R₂, R₃, m.p., and % yield given): Ph, H, H, H, 211.degree. (aq. EtOH), 81; Ph, H, H, Cl, 200-2.degree. (aq. EtOH), 76; Ph, H, NH₂, H, 168-70.degree. (aq. EtOH), 69; H, Me, H, Cl, 141-3.degree. (iso-PrOH), 90; Ph, Et, H, H, 147-9.degree. (EtOH), 62; Ph, allyl, H, H, 115.degree. (aq. EtOH), 55; Ph, propargyl, H, H, 198-200.degree. (EtOH), 41; Ph, Et, H, Cl, 121-6.degree. (aq. EtOH), 77; Ph, CH₂CH₂NMe₂, H, H, -, 54 [HCl salt m. 243-6.degree. (EtOH)]; Ph, 2-piperidinoethyl, H, H, -, 64 [HCl salt m. 208-12.degree. (EtOH)]; Ph, CH₂CH₂NMe₂, H, Cl, -, 60 [HCl salt m. 230-3.degree. (EtOH)]; Ph, 2-piperidinoethyl, H, Cl, -, 63 [HCl salt m. 234-8.degree. (EtOH)]; Ph, CH₂Cl₂Et, H, H, 102-4.degree. (aq. EtOH), 78; Ph, CH₂Cl₂Et, H, Cl, 135.5-8.5.degree. (aq. EtOH), 74; Ph, CH₂CONMe₂, H, H, 221-4.degree. (MeOH), 81; Ph, CH₂CONMe₂, H, Cl, 214-16.degree. (EtOH), 84; Ph, CH₂CONH₂, H, H, 229-32.degree., 93; Ph, CH₂CO₂H, H, H, 208-10.degree. (aq. EtOH), 87 [Na salt m. 327-31.degree. (decompn.) (EtOH-MeOH)]; Ph, CH₂CO₂H, H, Cl, 230-3.degree. (iso-PrOH), 86 [Na salt m. 329-31.degree. (decompn.) (EtOH)].
 IT **19880-23-0P 19880-25-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 19880-23-0 CAPLUS
 CN 1H-2,1-Benzothiazine, 4-methyl-3-phenyl-1-(2-piperidinoethyl)-, 2,2-dioxide, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

RN 19880-25-2 CAPLUS
 CN 1H-2,1-Benzothiazine, 6-chloro-4-methyl-3-phenyl-1-(2-piperidinoethyl)-,
 2,2-dioxide, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

L9 ANSWER 48 OF 49 CAPLUS COPYRIGHT 2002 ACS

AN 1967:411496 CAPLUS

DN 67:11496

TI New dibenzothiazine derivatives

PA Imperial Chemical Industries Ltd.

SO Neth. Appl., 31 pp.

CODEN: NAXXAN

DT Patent

LA Dutch

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 6604835		19661014		
PRAI	GB		19650413		
	GB		19651027		

AB Various methods are given for the prepn. of the title compds. which are valuable pharmaceuticals. Thus, 23 parts of a 10% soln. of .beta.-diethylaminoethyl chloride in C₆H₆ was added to 4 parts 6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide dissolved in 0.44 part Na in 75 parts EtOH, the mixt. stirred, refluxed 3 hrs., cooled, and filtered,

the filtrate evapd. to dryness, the residue washed with H₂O and filtered,

the solid residue dissolved in Et₂O, the Et₂O soln. dried and filtered, the filtrate treated with HCl in Et₂O until almost no HCl pptd., Et₂O

decanted, the hydrochloride treated with Me₂CO, the mixt. filtered, the solid hydrochloride (m. 206-8.degree.) dissolved in warm H₂O, the base freed

by the addn. of an aq. NH₄OH soln., and the mixt. filtered to give 6-(.beta.-diethylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide,

m. 79-80.degree. (aq. EtOH or petr. ether, b. 60-80.degree.). Similarly were

obtained 6-(.beta.-dimethylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 106-7.degree. (petr. ether b. 60-80.degree.), and 6-(.gamma.-dimethylaminopropyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide,

m. 97-8.degree. (petr. ether, b. 60-80.degree.), by replacement of .beta.-diethylaminoethyl chloride by .beta.-dimethylaminoethyl chloride and .gamma.-dimethylaminopropyl chloride, resp. Reflux of a mixt. of 20 parts 6-(.beta.-phthalimidoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide

(I), 450 parts EtOH, and 6 parts hydrazine hydrate 2 hrs., followed by cooling, acidification with 20% HCl, filtration, and further workup gave 6-(.beta.-aminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide oxalate (II), m. 212-13.degree. (decompn.) (H₂O). Treatment of II with excess

KOH and extn. of the mixt. with CHCl₃ gave 6-(.beta.-aminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 74-6.degree. (C₆H₆-petr. ether).

I was prepd. as follows: 1 part 50% dispersion of NaOH in oil was added to

5 parts 6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide in 25 parts anhyd. dimethylformamide (DMF), 5 parts N-2-bromoethylphthalimide in 15 parts anhyd. DMF added after complete reaction, and the mixt. stirred, heated

to

95-100.degree. 1 hr., cooled, dild. with H₂O, and filtered to give I, m. 176-7.degree. (C₆H₆). Reflux of a mixt. of 6-(.beta.-3.4 parts bromoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, 1.9 parts K phthalimide, and 25 parts DMF 1 hr. at 60.degree. also gave I, m. 176-7.degree. (C₆H₆). Reflux of a mixt. of 5 parts 7-chloro-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide (III), 0.9 part Na in 90 parts EtOH, and 3.5 parts .beta.-diethylaminoethyl chloride hydrochloride 4 hrs. gave 7-chloro-6-(.beta.-diethylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 125-6.degree. (EtOH). Similarly were prepd. 2-chloro-6-(.gamma.-dimethylaminopropyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide (IV), IV oxalate, m. 160-2.degree. (decompn.) (EtOH), 6-(.beta.-diisopropylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 101-2.degree. (petr. ether, b. 60-80.degree.). III was prepd. as follows: 12 parts o-amino-o'-chlorobenzenesulfonanilide (m. 87-9.degree.) in 100 parts EtOH was mixed with 2.8 parts NaNO₂ in 28 parts H₂O and the mixt. added to 16 parts concd. HCl and 8 parts H₂O at 0-5.degree., the mixt. stirred, 20 parts NaOAc added, the mixt. filtered, the residue added to a suspension of 1 part Cu powder in 5 parts NaOH and 160 parts H₂O, the mixt. stirred and heated until no reaction when treated with .beta.-naphthol, the mixt. treated with charcoal, filtered while hot, and the filtrate cooled and treated with AcOH to give III, m. 184-5.degree. (EtOH). Similarly was prepd. 2-chloro-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 203-4.degree. (iso-PrOH). Also prepd. were 7-bromo-6-(.beta.-diethylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 126-7.degree. (petr. ether, b. 100-120.degree.), 6-(.beta.-diethylaminoethyl)-2-methyl-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 90-1.degree. (petr. ether, b. 60-80.degree.), 6-(.beta.-dimethylaminopropyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 129-30.degree. (iso-PrOH). A mixt. of 5 parts 6-(.beta.-bromoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide (V), 20 parts DMF, and 20 parts 70% EtNH₂ in H₂O was refluxed 18 hrs., the non-converted reactants removed, and the residue worked up to give 6-(.beta.-ethylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide hydrochloride, m. 198-9.degree.. V, m. 105-6.degree. (EtOH), was prepd. by refluxing a mixt. of 18.4 parts 6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide in a soln. of NaOEt (1.84 parts Na in 200 parts EtOH) and 36 parts BrCH₂CH₂Br. Similarly were obtained 6-(.beta.-methylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide oxalate, m. 210-11.degree. (H₂O), 6-(.beta.-ethylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide hydrochloride, m. 198-9.degree. (EtOH), 6-[.beta.-(N-.beta.-hydroxyethyl-N-methylamino)ethyl]-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide oxalate, m. 170.degree. (decompn.) (MeOH), 6-(.beta.-butylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide hydrochloride, m. 194-6.degree. (MeOH). A mixt. of 9.6 parts 6-(.gamma.-bromopropyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, 40

parts

DMF, and 40 parts 40% MeNH₂ in H₂O was refluxed 18 hrs. to give 6-(.gamma.-methylaminopropyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide oxalate, m. 202-3.degree. (decompn.) (H₂O). Similarly was prepd. 6-(4-dimethylaminobutyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide

oxalate,

m. 151-2.degree. (EtOH). A mixt. of 1 part 6-(.beta.-dimethylaminoethyl)-

6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, 1 part MeI, and 150 parts anhyd.

Et₂O was kept 18 hrs. at room temp. and the mixt. filtered to give 6-(.beta.-dimethylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide methiodide, m. 264-5.degree. (decompn.) (MeOH). Hydrogenation of 1.5 parts 6-(.beta.- (N-benzyl-N-isopropylamino)ethyl)-6H-

10%

dibenzo[c,e][1,2]thiazine 5,5-dioxide in 50 parts dioxane with 1 part Pd-C catalyst gave 6-(.beta.-isopropylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide oxalate, m. 218.degree. (decompn.) (MeOH), after reaction of the hydrogenation product with oxalic acid. Hydrogenation of 1 part 6-(.beta.-aminoethyl)-6H-

dibenzo[c,e][1,2]thiazine

5,5-dioxide in 50 parts Me₂CO with 0.5 part Pt oxide catalyst, and treatment of the product with oxalic acid gave 6-(.beta.-isopropylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, oxalate,

m.

218.degree. (decompn.) (MeOH). To a stirred mixt. of 1 part LiAlH₄ in

50

parts anyd. dimethoxyethane was added 3 parts 6-cyanomethyl-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide while kept at -30.degree., the

temp.

raised to 0.degree., the mixt. stirred 1 hr. at 0.degree., H₂O added,

the

mixt. stirred 1 hr. at room temp. and worked up, and the product treated with oxalic acid in Et₂O to give 6-(.beta.-aminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide oxalate, m. 212-13.degree.

(decompn.). A soln. of 7 parts NaNO₂ in 75 parts H₂O was added to a stirred mixt. of 24 parts N-(o-aminophenylsulfonyl)-N-(.beta.-diethylaminoethyl)aniline, 50 parts AcOH, and 75 parts concd. HCl, the mixt. kept at 15-20.degree., stirred 30 min. at 20.degree., dild. with

125

parts H₂O, heated to 95-100.degree., until N formation stopped, cooled, alkalized, and extd. with CHCl₃, the ext. washed with H₂O, dried, and filtered, and solvent removed to give 6.beta.-diethylaminoethyl-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 79-80.degree. (pert. ether, b. 60-80.degree.). The same compd. was also prepd. from o-(N-

phenylsulfonyl-

N-.beta.-diethylaminoethylamino)aniline, NaNO₂, HCl, and AcOH. Also prepd. was 6-(.beta.-aminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-

dioxide

oxalate, m. 213.degree. (decompn.). Other compds. prepd. were

6-(.beta.-diethylaminoethyl)-7-trifluoromethyl-6H-

dibenzo[c,e][1,2]thiazine 5,5-dioxide, m. 99-100.degree. (petr. ether,

b.

60-80.degree.), 6-(.beta.-allylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide hydrochloride, m. 187-8.degree. (MeOH-Et₂O),

6-(.beta.-propylaminoethyl)-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide hydrobromide, m. 255-66.degree. (glacial AcOH), 6.beta.-ethylaminoethyl-

6H-

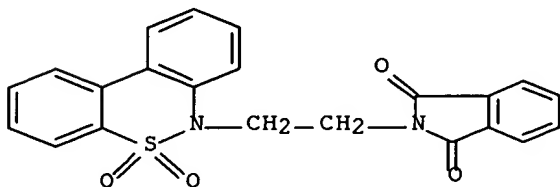
dibenzo[c,e][1,2]thiazine 5,5-dioxide benzoate, m. 160-2.degree. (MeOH), and 6.beta.-ethylaminoethyl-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide maleate, m. 149-51.degree. (MeOH). The prepn. of therapeutic compns. is described.

IT 14758-62-4P 14758-70-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

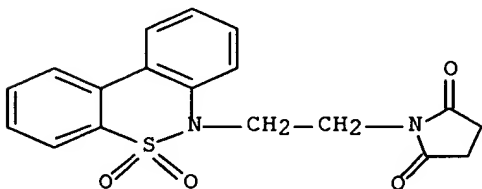
RN 14758-62-4 CAPLUS

CN Phthalimide, N-[2-(6H-dibenzo[c,e][1,2]thiazin-6-yl)ethyl]-, S,S-dioxide
(8CI) (CA INDEX NAME)



RN 14758-70-4 CAPLUS

CN Succinimide, N-[2-(6H-dibenzo[c,e][1,2]thiazin-6-yl)ethyl]-, S,S-dioxide
(8CI) (CA INDEX NAME)



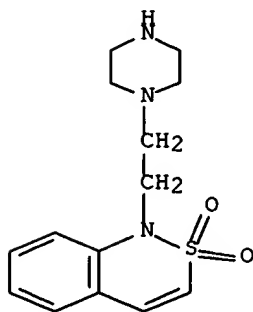
L9 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1967:65490 CAPLUS
 DN 66:65490
 TI 2,1-Benzothiazine 2,2-dioxides
 IN Loev, Bernard
 PA Smith Kline and French Laboratories
 SO U.S., 4 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3303189		19670207	US	19650311

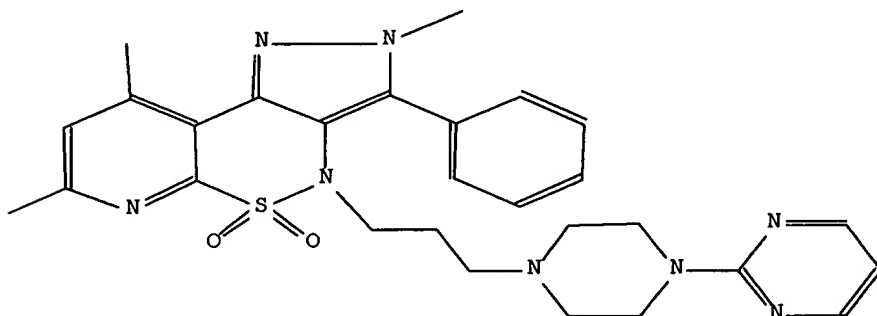
AB Sulfostyryl (2,1-benzothiazine 2,2-dioxide) compds. were prepd. by the decompn. of a hydrazone of a 4-oxo-3,4-dihydrosulfostyryl (prepd. in preceding abstr.) or by the cyclization of an acyl methanesulfonanilide. Thus, 85 g. p-tolysulfonylhydrazone of 4-oxo-3,4-dihydrosulfostyryl was dissolved in 1.7 l. hot EtOH, 39.4 g. NaOMe added, water added to dissolve the mixt., the mixt. refluxed 18 hrs., concd. to a small vol., dild. with water, and made acid, and the solid extd. with boiling water twice to give sulfostyryl (I), m. 153-5.degree. (CHCl3). To 0.8 g. of a 55% dispersion of NaH in mineral oil was added 3.0 g. I in 50 ml. dry Me2SO. When evolution stopped, 0.041 mole Me2NCH2CH2Cl in benzene was added, the mixt. heated over steam 18 hrs., the solvent removed in vacuo, water added to the residue, and the mixt. extd. with Et2O to give a brown oily base. The oil was dissolved in Et2O and treated with HCl gas to give the HCl salt of N-dimethylaminoethylsulfostyryl, m. 237.5-41.degree. (alc.-water). The base was treated in Et2O with EtI to give the quaternary ethiodide salt. Similarly prepd. was N-3-dimethylaminopropylsulfostyryl hydrochloride, m. 158-60.degree. (EtOH). The tosylhydrazone of 8-methoxy-4-oxo-3,4-dihydrosulfostyryl (2 g.) was treated with 1 g. KOEt in aq. EtOH at reflux 16 hrs. to give 8-methoxysulfostyryl. Similarly prepd. were 3,6-dimethylsulfostyryl, 5-methyl-8-chlorosulfostyryl, and 7-trifluoromethylsulfostyryl. Also prepd. were N-acetylsulfostyryl, 4-methylsulfostyryl, m. 80-5.degree. (alc.-water), N-methylsulfostyryl, m. 80-5.degree. (aq. alc.), 6-bromo-N-methylsulfostyryl, m. 102-3.degree., N-phenylsulfostyryl, m. 156-7.degree., N-beta.-hydroxyethylsulfostyryl, N-beta.-tosyloxyethylsulfostyryl, N-butylaminoethylsulfostyryl, N-piperazinylethylsulfostyryl, N-ethylaminoethylsulfostyryl, N-cyanoethylsulfostyryl, N-aminoethylsulfostyryl, N-[2-(N-methylpyrrolidin-3-yl)ethyl]-6-trifluoromethylsulfostyryl, N-[2-(N-methylpiperidin-2-yl)ethyl]sulfostyryl, N-methyldihydrosulfostyryl, tribromosulfostyryl, m. 179-80.degree., 6-nitrosulfostyryl, and 6-aminosulfostyryl.

IT 13618-03-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 13618-03-6 CAPLUS
CN 1H-2,1-Benzothiazine, 1-[2-(1-piperazinyl)ethyl]-, 2,2-dioxide (8CI)
(CA
INDEX NAME)



Beilstein Reg. No. (BRN): 7240381 Beilstein
Molecular Formula (MF): C₂₈ H₃₂ N₈ O₂ S
Autonom Name (AUN): 2,7,9-trimethyl-3-phenyl-4-<3-(4-pyrimidin-2-yl-
1,2,4,6- piperazin-1-yl)-propyl>-2,4-dihydro-5-thia-
tetraaza-cyclopenta<a>naphthalene 5,5-dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 544.67
Lawson Number (LN): 32531; 29553; 28000; 3633; 3027



Preparation:
PRE

Start: BRN=7256674 2H-2,7,9-trimethyl-3-phenyl-2,4-dihydropyrazolo<4,3-
c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide, BRN=7209780
1-chloropropyl-4-pyrimidin-2-yl-piperazine

Reag: NaOEt

Time: 7 hour(s)

Yield: 52.00 %

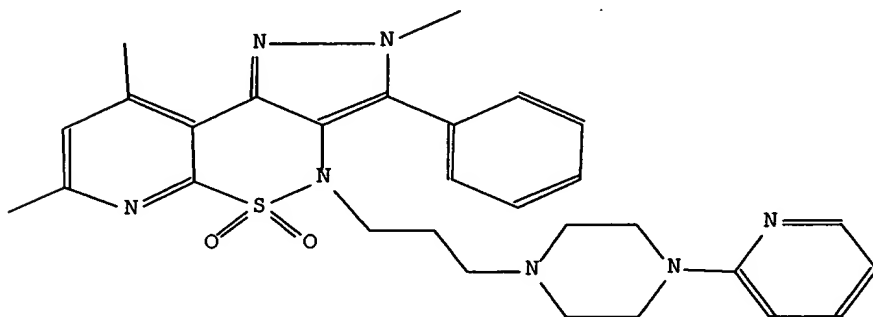
Solv: ethanol

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna;
Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792,
LA: EN, CODEN: FRMCE8

Beilstein Reg. No. (BRN): 7240027 Beilstein
Molecular Formula (MF): C₂₉ H₃₃ N₇ O₂ S
Autonom Name (AUN): 2,7,9-trimethyl-3-phenyl-4-<3-(4-pyridin-2-yl-
piperazin-1-yl)-propyl>-2,4-dihydro-5-thia-
1,2,4,6- tetraaza-cyclopenta<a>naphthalene 5,5-dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 543.69
Lawson Number (LN): 32531; 28000; 27378; 3633; 3027



Preparation:

PRE

Start: BRN=7256674 2H-2,7,9-trimethyl-3-phenyl-2,4-dihydropyrazolo<4,3-c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide, BRN=7207969
1-chloropropyl-4-pyridin-2-yl-piperazine

Reag: NaOEt

Time: 7 hour(s)

Yield: 45.00 %

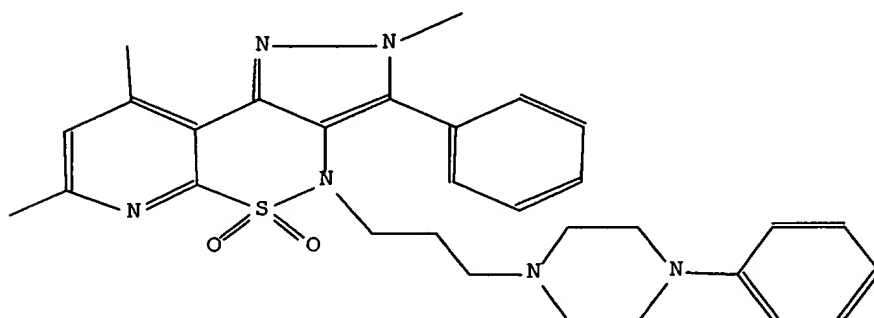
Solv: ethanol

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792, LA: EN, CODEN: FRMCE8

Beilstein Reg. No. (BRN): 7239665 Beilstein
Molecular Formula (MF): C30 H34 N6 O2 S
Autonom Name (AUN): 2,7,9-trimethyl-3-phenyl-4-(3-(4-phenyl-
piperazin-1-yl)-propyl)-2,4-dihydro-5-thia-1,2,4,6-tetraaza-
cyclopenta<a>naphthalene 5,5-dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 542.70
Lawson Number (LN): 32531; 28000; 14131; 3633; 3027



Preparation:

PRE

Start: BRN=7232235 2H-2,7,9-trimethyl-3-phenyl-4-(3-chloropropyl)-2,4-dihydropyrazolo<4,3-c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide, BRN=132157 1-phenyl-piperazine

Time: 15 hour(s)

Yield: 57.00 %

Solv: xylene

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792, LA: EN, CODEN: FRMCE8

PRE

Start: BRN=7256674 2H-2,7,9-trimethyl-3-phenyl-2,4-dihydropyrazolo<4,3-c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide, BRN=186532 1-(3-chloro-propyl)-4-phenyl-piperazine

Reag: NaOEt

Time: 7 hour(s)

Yield: 85.00 %

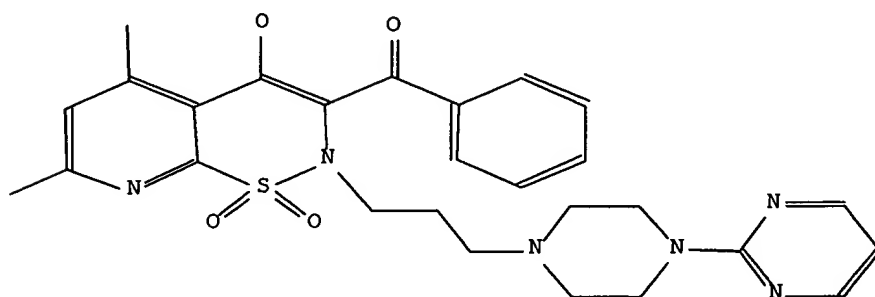
Solv: ethanol

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792, LA: EN, CODEN: FRMCE8

Beilstein Reg. No. (BRN): 7239640 Beilstein
Molecular Formula (MF): C₂₇ H₃₀ N₆ O₄ S
Autonom Name (AUN): (4-hydroxy-5,7-dimethyl-1,1-dioxo-2-<3-(4-pyrimidin-2-yl-piperazin-1-yl)-propyl>-1,2-dihydro-1.1lambda.6-pyrido<3,2-e><1,2>thiazin-3-yl)-phenyl-methanone
Beilstein Reference (SO): 6-27
Formula Weight (FW): 534.63
Lawson Number (LN): 32175; 29553; 28000; 3027



Preparation:

PRE

Start: BRN=6980884 (4-hydroxy-5,7-dimethyl-1,1-dioxo-1,2-dihydro-1.1lambda.6-pyrido<3,2-e><1,2>thiazin-3-yl)-phenyl-methanone, BRN=7209780 1-chloropropyl-4-pyrimidin-2-yl-piperazine

Reag: NaOEt

Time: 15 hour(s)

Yield: 38.00 %

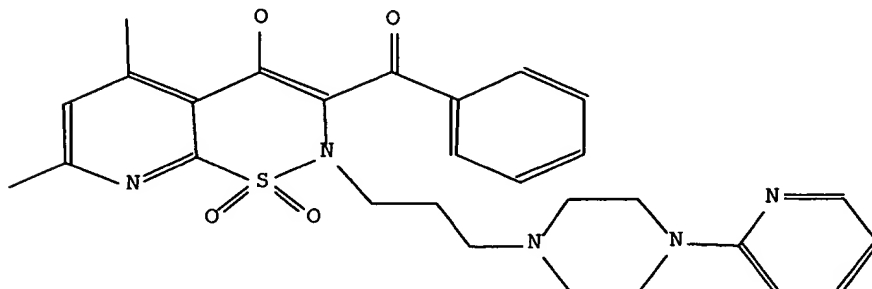
Solv: ethanol

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792, LA: EN, CODEN: FRMCE8

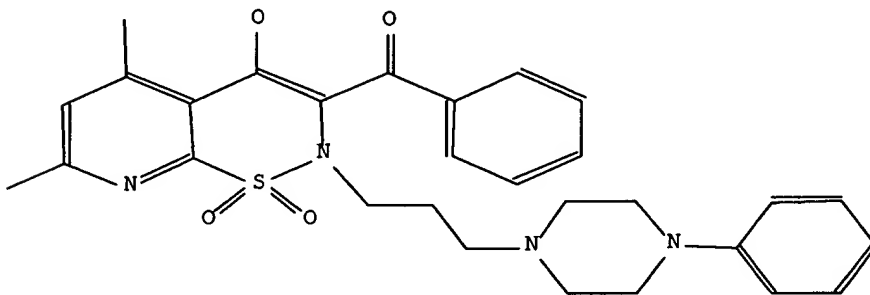
Beilstein Reg. No. (BRN): 7239322 Beilstein
Molecular Formula (MF): C₂₈ H₃₁ N₅ O₄ S
Autonom Name (AUN): (4-hydroxy-5,7-dimethyl-1,1-dioxo-2-<3-(4-pyridin-2-yl-piperazin-1-yl)-propyl>-1,2-dihydro-1.1lambda.6-pyrido<3,2-e><1,2>thiazin-3-yl)-phenyl-methanone
Beilstein Reference (SO): 6-27
Formula Weight (FW): 533.64
Lawson Number (LN): 32175; 28000; 27378; 3027



Preparation:
PRE

Start: BRN=6980884 (4-hydroxy-5,7-dimethyl-1,1-dioxo-1,2-dihydro-1.1lambda.6-pyrido<3,2-e><1,2>thiazin-3-yl)-phenyl-methanone, BRN=7207969 1-chloropropyl-4-pyridin-2-yl-piperazine
Reag: NaOEt
Time: 15 hour(s)
Yield: 48.00 %
Solv: ethanol
Heating
Reference(s):
1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792, LA: EN, CODEN: FRMCE8

Beilstein Reg. No. (BRN): 7238879 Beilstein
Molecular Formula (MF): C₂₉ H₃₂ N₄ O₄ S
Autonom Name (AUN): (4-hydroxy-5,7-dimethyl-1,1-dioxo-2-<3-(4-phenyl-piperazin-1-yl)-propyl>-1,2-dihydro-1.λ⁶-pyrido<3,2-e><1,2>thiazin-3-yl)-phenyl-methanone
Beilstein Reference (SO): 6-27
Formula Weight (FW): 532.66
Lawson Number (LN): 32175; 28000; 14131; 3027



Preparation:

PRE

Start: BRN=6980884 (4-hydroxy-5,7-dimethyl-1,1-dioxo-1,2-dihydro-1.λ⁶-pyrido<3,2-e><1,2>thiazin-3-yl)-phenyl-methanone, BRN=186532 1-(3-chloro-propyl)-4-phenyl-piperazine

Reag: NaOEt

Time: 15 hour(s)

Yield: 54.00 %

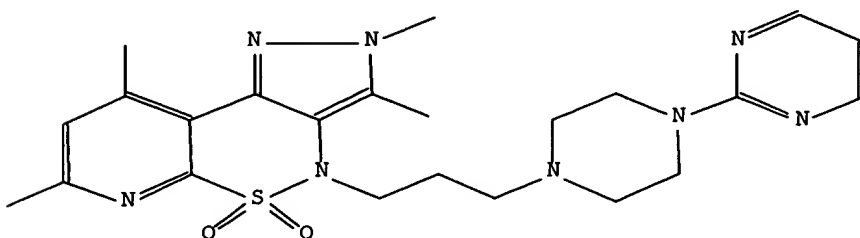
Solv: ethanol

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792, LA: EN, CODEN: FRMCE8

Beilstein Reg. No. (BRN): 7236554 Beilstein
Molecular Formula (MF): C23 H30 N8 O2 S
Autonom Name (AUN): 2,3,7,9-tetramethyl-4-<3-(4-pyrimidin-2-yl-
piperazin-1-yl)-propyl>-2,4-dihydro-5-thia-
1,2,4,6- tetraaza-cyclopenta<a>naphthalene 5,5-dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 482.60
Lawson Number (LN): 32535; 29553; 28000; 3633; 3027



Preparation:
PRE

Start: BRN=7253565 2H-2,3,7,9-tetramethyl-2,4-dihydropyrazolo<4,3-
c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide, BRN=7209780
1-chloropropyl-4-pyrimidin-2-yl-piperazine

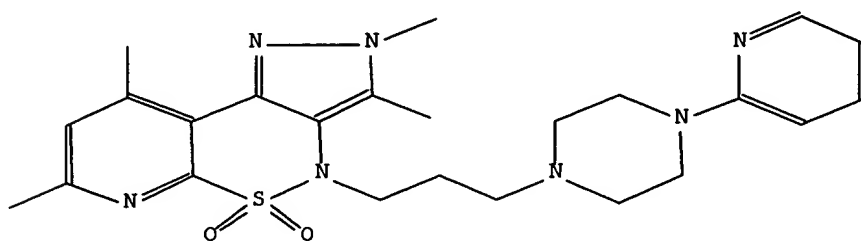
Reag: NaOEt
Time: 7 hour(s)
Yield: 65.00 %
Solv: ethanol

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna;
Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792,
LA: EN, CODEN: FRMCE8

Beilstein Reg. No. (BRN): 7236090 Beilstein
Molecular Formula (MF): C₂₄ H₃₁ N₇ O₂ S
Autonom Name (AUN): 2,3,7,9-tetramethyl-4-<3-(4-pyridin-2-yl-
piperazin-1-yl)-propyl>-2,4-dihydro-5-thia-1,2,4,6-
tetraaza-
cyclopenta<a>naphthalene 5,5-dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 481.61
Lawson Number (LN): 32535; 28000; 27378; 3633; 3027



Preparation:

PRE

Start: BRN=7253565 2H-2,3,7,9-tetramethyl-2,4-dihydropyrazolo<4,3-
c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide, BRN=7207969
1-chloropropyl-4-pyridin-2-yl-piperazine

Reag: NaOEt

Time: 7 hour(s)

Yield: 65.00 %

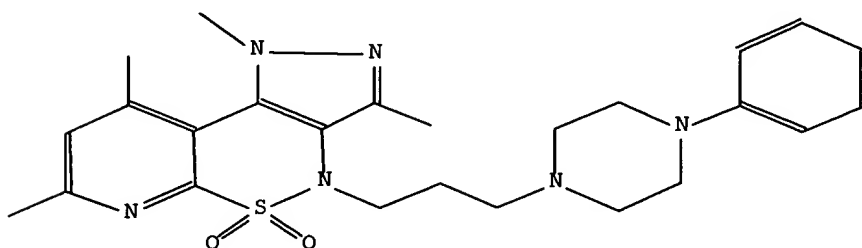
Solv: ethanol

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna;
Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792,
LA: EN, CODEN: FRMCE8

Beilstein Reg. No. (BRN): 7235971 Beilstein
Molecular Formula (MF): C₂₅ H₃₂ N₆ O₂ S
Autonom Name (AUN): 1,3,7,9-tetramethyl-4-<3-(4-phenyl-piperazin-1-yl)-propyl>-1,4-dihydro-5-thia-1,2,4,6-tetraaza-cyclopenta<a>naphthalene 5,5-dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 480.63
Lawson Number (LN): 32535; 28000; 14131; 3633; 3027



Preparation:

PRE

Start: BRN=7235030 2H-3-acetyl-4-hydroxy-5,7-dimethyl-2-<3-(4-phenyl-1-piperazinyl)propyl>-pyrido<3,2-e>-1,2-thiazine-1,1-dioxide, BRN=635645 methylhydrazine

Time: 3 hour(s)

Solv: ethanol

Heating

ByProd: BRN=7235395 2H-2,3,7,9-tetramethyl-4-<3-(4-phenyl-1-piperazinyl)propyl>-2,4-dihydropyrazolo<4,3-c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide \8 percent

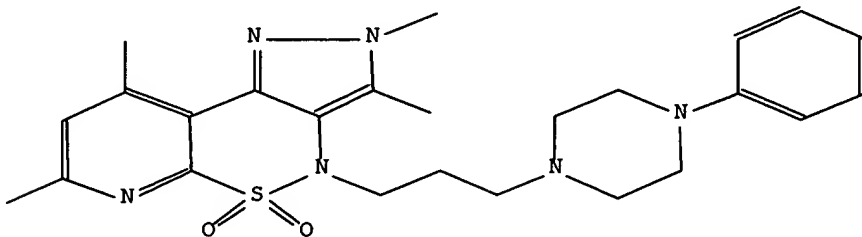
Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792, LA: EN, CODEN: FRMCE8

Note(s):

2. Yield: 0.5 g

Beilstein Reg. No. (BRN): 7235395 Beilstein
Molecular Formula (MF): C₂₅ H₃₂ N₆ O₂ S
Autonom Name (AUN): 2,3,7,9-tetramethyl-4-<3-(4-phenyl-piperazin-1-yl)-propyl>-2,4-dihydro-5-thia-1,2,4,6-tetraaza-cyclopenta<a>naphthalene 5,5-dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 480.63
Lawson Number (LN): 32535; 28000; 14131; 3633; 3027



Preparation:

PRE

Start: BRN=7224939 2H-2,3,7,9-tetramethyl-4-(3-chloropropyl)-2,4-dihydropyrazolo<4,3-c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide, BRN=132157 1-phenyl-piperazine

Time: 15 hour(s)

Yield: 55.00 %

Solv: xylene

Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792, LA: EN, CODEN: FRMCE8

PRE

Start: BRN=7235030 2H-3-acetyl-4-hydroxy-5,7-dimethyl-2-<3-(4-phenyl-1-piperazinyl)propyl>-pyrido<3,2-e>-1,2-thiazine-1,1-dioxide, BRN=635645 methylhydrazine

Time: 3 hour(s)

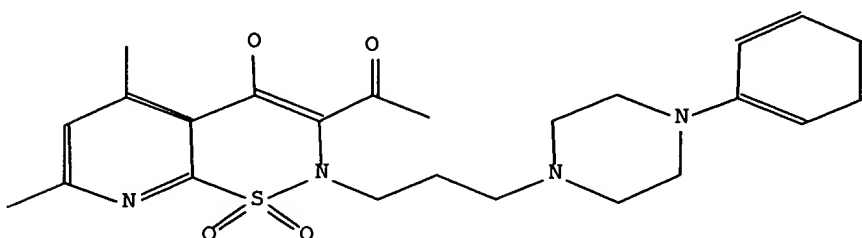
Yield: 8.00 %

Solv: ethanol

Heating

ByProd: BRN=7235971 1H-1,3,7,9-tetramethyl-4-<3-(4-phenyl-1-piperazinyl)propyl>-1,4-dihydropyrazolo<4,3-c>pyrido<3,2-e>-1,2-thiazine-5,5-dioxide \0.5 g

Beilstein Reg. No. (BRN): 7235030 Beilstein
Molecular Formula (MF): C₂₄ H₃₀ N₄ O₄ S
Autonom Name (AUN): 1-(4-hydroxy-5,7-dimethyl-1,1-dioxo-2-<3-(4-phenyl-
piperazin-1-yl)-propyl>-1,2-dihydro-1.lambda.6-
pyrido<3,2-e><1,2>thiazin-3-yl)-ethanone
Beilstein Reference (SO): 6-27
Formula Weight (FW): 470.59
Lawson Number (LN): 32173; 28000; 14131; 3027



Preparation:
PRE

Start: BRN=6976045 1-(4-hydroxy-5,7-dimethyl-1,1-dioxo-1,2-dihydro-
1.lambda.6-pyrido<3,2-e><1,2>thiazin-3-yl)-ethanone, BRN=186532
1-(3-chloro-propyl)-4-phenyl-piperazine

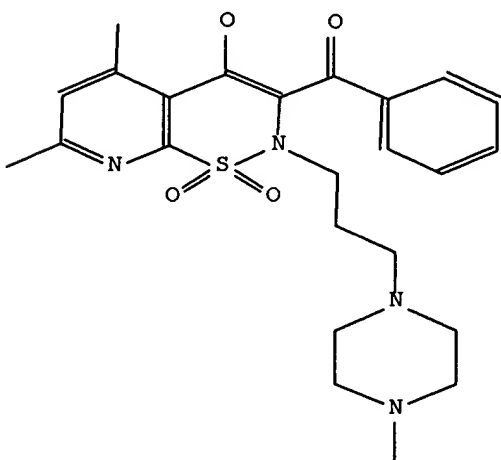
Reag: NaOEt
Time: 15 hour(s)
Yield: 56.00 %
Solv: ethanol
Heating

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna;
Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, 49 <1994> 12, 783-792,
LA: EN, CODEN: FRMCE8

L14 ANSWER 12 OF 22 COPYRIGHT 2002 BEILSTEIN CDS MDLI

Beilstein Reg. No. (BRN): 6995465 Beilstein
Molecular Formula (MF): C₂₄ H₃₀ N₄ O₄ S . 2 Cl H
Lin. Struct. Formula (LSF): C₂₄H₃₀N₄O₄S*2HCl
Synonym (SY): 2H-3-benzoyl-4-hydroxy-5,7-dimethyl-2-<3-(1-methyl-
4-piperazinyl)propyl>pyrido<3,2-e>-1,2-thiazine-
1,1-dioxide dihydrochloride
Beilstein Reference (SO): 6-27



CM 2

CBRN 1098214

CMF Cl H

Preparation:

PRE

Start: BRN=6980884 2H-3-benzoyl-4-hydroxy-5,7-dimethylpyrido<3,2-e>-
1,2-thiazine-1,1-dioxide, BRN=106074 1-(3-chloro-propyl)-4-methyl-
piperazine

Reag: 1.) sodium; 2.) hydrogen chloride

Time: 5 hour(s)

Yield: 40.00 %

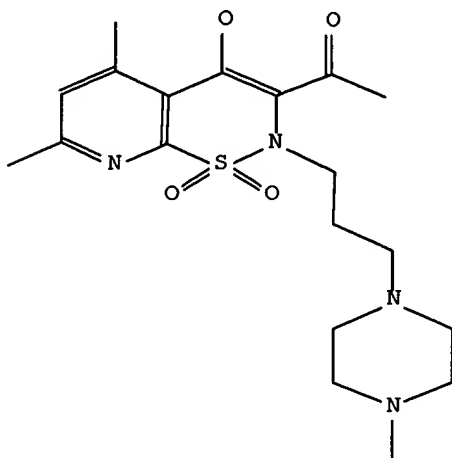
Solv: ethanol

Heating

Reference(s):

1. Zawisza, T.; Malinka, W., Farmaco Ed.Sci., 41 <1986> 10, 819-826, LA:
EN, CODEN: FRPSAX

Beilstein Reg. No. (BRN): 6994407 Beilstein
Molecular Formula (MF): C19 H28 N4 O4 S . 2 Cl H
Lin. Struct. Formula (LSF): C19H28N4O4S*2HCl
Synonym (SY): 2H-3-acetyl-4-hydroxy-5,7-dimethyl-2-<3-(1-methyl-4-piperazinyl)propyl>pyrido<3,2-e>-1,2-thiazine-1,1-dioxide dihydrochloride
Beilstein Reference (SO): 6-27



CM 2

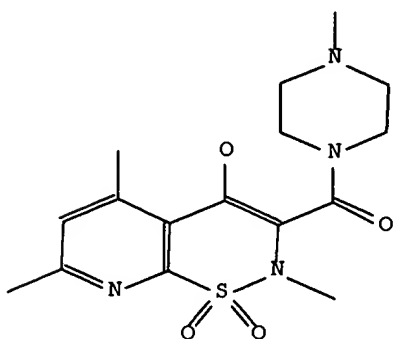
CBRN 1098214
CMF Cl H

Preparation:

PRE

Start: BRN=6976045 2H-3-acetyl-4-hydroxy-5,7-dimethylpyrido<3,2-e>-1,2-thiazine-1,1-dioxide, BRN=106074 1-(3-chloro-propyl)-4-methyl-piperazine
Reag: 1.) sodium; 2.) hydrogen chloride
Time: 5 hour(s)
Yield: 60.00 %
Solv: ethanol
Heating
Reference(s):
1. Zawisza, T.; Malinka, W., Farmaco Ed.Sci., 41 <1986> 10, 819-826, LA: EN, CODEN: FRPSAX

Beilstein Reg. No. (BRN): 6985897 Beilstein
Molecular Formula (MF): C16 H22 N4 O4 S
Autonom Name (AUN): (4-hydroxy-2,5,7-trimethyl-1,1-dioxo-1,2-dihydro-
1.lambda.6-thia-2,8-diaza-naphthalen-3-yl)-(4-
methyl-piperazin-1-yl)-methanone
Beilstein Reference (SO): 6-27
Formula Weight (FW): 366.43
Lawson Number (LN): 32204; 28000; 2817



Preparation:

PRE

Start: BRN=6980776 2H-3-ethoxycarbonyl-4-hydroxy-2,5,7-trimethylpyrido<3,2-e>-1,2-thiazine-1,1-dioxide, BRN=102724
1-methyl-piperazine

Yield: 33.00 %

Solv: xylene

Heating

Detail: Soxhlet apparatus with type 4A molecular sieves

Reference(s):

1. Zawisza, T.; Malinka, W., Farmaco Ed.Sci., 41 <1986> 11, 892-898, LA:
EN, CODEN: FRPSAX

Beilstein Reg. No. (BRN): 6245731 Beilstein
Molecular Formula (MF): C23 H30 N4 O2 S
Synonym (SY): 4,6-dimethyl-2-<3'-(N'-methylpiperazinyl)propyl>-
8-phenyl-2H-pyrido-<2,3-c>-1,2-thiazine 1,1-dioxide
Autonom Name (AUN): 5,7-dimethyl-1-<3-(4-methyl-piperazin-1-yl)-
propyl>-3-phenyl-1H-pyrido<2,3-c><1,2>thiazine 2,2-
dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 426.58
Lawson Number (LN): 32020; 28000; 3027; 2817

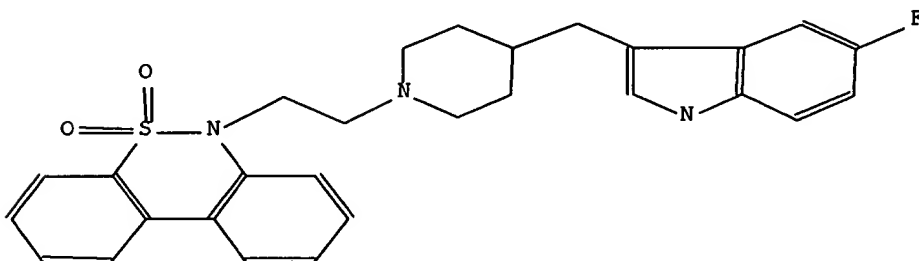
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Preparation:

PRE

Start: BRN=6216734 4,6-dimethyl-8-phenyl-2H-pyrido-<2,3-c>-1,2-thiazine
1,1-dioxide, BRN=106074 1-(3-chloro-propyl)-4-methyl-piperazine
Reag: Na/ethanol
Time: 18 hour(s)
Yield: 40.00 %
Solv: benzene
Heating
ByProd: BRN=6242893 4,6-dimethyl-3-<3'-(N'-methylpiperazinyl)propyl>-8-
phenyl-3H-pyrido-<2,3-c>-1,2-thiazine 1,1-dioxide \34 percent of
Input
Reference(s):
1. ZAWISZA, Tadeusz; MILIAN, Anna; JAKOBIEC, Tadeusz, Pol.J.Chem., 54
<1980> 7/8, 1413-1424, LA: EN, CODEN: PJCHDQ

Beilstein Reg. No. (BRN): 6183454 Beilstein
Molecular Formula (MF): C₂₈ H₂₈ F N₃ O₂ S
Autonom Name (AUN): 10-(2-(4-(5-fluoro-1H-indol-3-ylmethyl)-
piperidin-1-yl)-ethyl)-10H-9-thia-10-aza-phenanthrene
9,9-dioxide
Beilstein Reference (SO): 6-27
Formula Weight (FW): 489.61
Lawson Number (LN): 30935; 28157; 3018



Preparation:

PRE

Start: BRN=6149735 6-(2-chloroethyl)-6H-dibenz<ce>-1,2-thiazine
5,5-dioxide, BRN=5544309 5-fluoro-3-(4-piperidinylmethyl)indole
Reag: NaHCO₃
Time: 5 hour(s)
Yield: 67.00 %
Solv: dimethylformamide, tetrahydrofuran
Heating
Reference(s):
1. Malleron, Jean-Luc; Gueremy, Claude; Mignani, Serge; Peyronel,
Jean-Francois; Truchon, Alain; et al., J.Med.Chem., 36 <1993> 9,
1194-1202, LA: EN, CODEN: JMCMAR

Beilstein Reg. No. (BRN): 6172271 Beilstein
Molecular Formula (MF): C₂₈ H₂₈ F N₃ O₂ S . C₂ H₂ O₄
Synonym (SY): 6-<2-<4-((5-fluoro-1H-indol-3-yl)methyl)-1-piperidinyl>ethyl>-6H-dibenz<ce>-1,2-thiazine 5,5-dioxide oxalate
Beilstein Reference (SO): 6-27

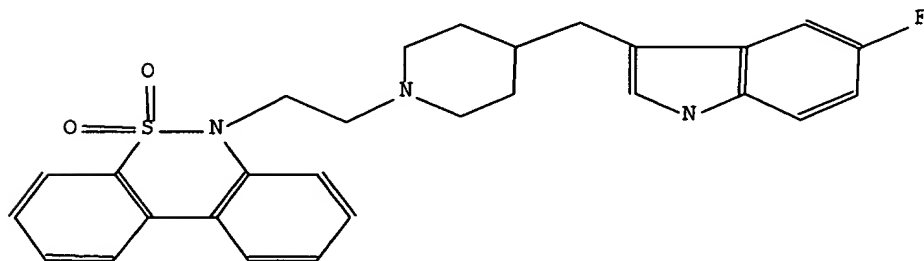
Component Data:

Component Reg. No. (CBRN)	Component Molec. Formula (CMF)	Formula Weight (FW)	Lawson Number (LN)
6183454	C ₂₈ H ₂₈ F N ₃ O ₂ S	489.61	30935, 28157, 3018
385686	C ₂ H ₂ O ₄	90.04	1516

CM 1

CBRN 6183454

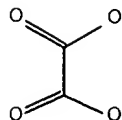
CMF C₂₈ H₂₈ F N₃ O₂ S



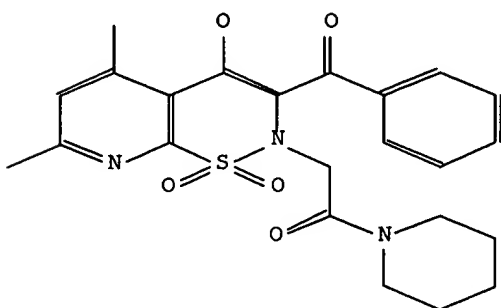
CM 2

CBRN 385686

CMF C₂ H₂ O₄



Beilstein Reg. No. (BRN): 5892992 Beilstein
 Molecular Formula (MF): C₂₃ H₂₅ N₃ O₅ S
 Autonom Name (AUN): 2-(3-benzoyl-4-hydroxy-5,7-dimethyl-1,1-dioxo-1H-
 1.lambda.6-thia-2,8-diaza-naphthalen-2-yl)-1-
 piperidin-1-yl-ethanonen
 Beilstein Reference (SO): 6-27
 Formula Weight (FW): 455.53
 Lawson Number (LN): 32175; 24081; 3379



Preparation:

PRE

Start: BRN=5888355 (3-benzoyl-4-hydroxy-5,7-dimethyl-1,1-dioxo-1H-
 1.lambda.6-thia-2,8-diaza-naphthalen-2-yl)-acetyl chloride ,
 BRN=102438 piperidine

Time: 24 hour(s)

Solv: CHCl₃

Ambient Temperature

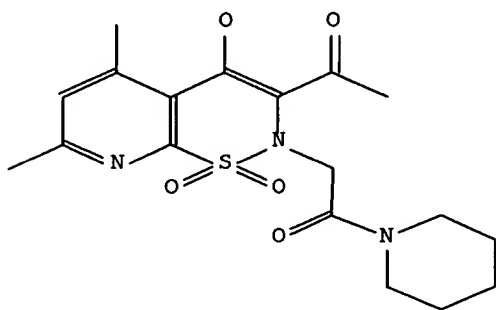
Reference(s):

1. MALINKA, W.; DEREN, A., Pol.J.Chem., 66 <1992> 12, 1953-1960, LA: EN,
 CODEN: PJCHDQ

Note(s):

2. Yield given

Beilstein Reg. No. (BRN): 5889002 Beilstein
Molecular Formula (MF): C18 H23 N3 O5 S
Autonom Name (AUN): 2-(3-acetyl-4-hydroxy-5,7-dimethyl-1,1-dioxo-1H-
1.lambda.6-thia-2,8-diaza-naphthalen-2-yl)-1-
piperidin-1-yl-ethanone
Beilstein Reference (SO): 6-27
Formula Weight (FW): 393.46
Lawson Number (LN): 32173; 24081; 3379



Preparation:

PRE

Start: BRN=5884394 (3-acetyl-4-hydroxy-5,7-dimethyl-1,1-dioxo-1H-
1.lambda.6-thia-2,8-diaza-naphthalen-2-yl)-acetyl chloride ,
BRN=102438 piperidine
Time: 24 hour(s)
Solv: CHCl3
Ambient Temperature
Reference(s):
1. MALINKA, W.; DEREN, A., Pol.J.Chem., 66 <1992> 12, 1953-1960, LA: EN,
CODEN: PJCHDQ
Note(s):
2. Yield given

L14 ANSWER 20 OF 22 COPYRIGHT 2002 BEILSTEIN CDS MDLI

Beilstein Reg. No. (BRN): 1178633 Beilstein
Molecular Formula (MF): C22 H25 Cl N2 O2 S
Chemical Name (CN): 6-chloro-4-methyl-3-phenyl-1-(2-piperidin-1-yl-ethyl)-1H-benzo<c><1,2>thiazine 2,2-dioxide
Autonom Name (AUN): 6-chloro-4-methyl-3-phenyl-1-(2-piperidin-1-yl-ethyl)-1H-benzo<c><1,2>thiazine 2,2-dioxide
Beilstein Reference (SO): 5-27
Formula Weight (FW): 416.96
Lawson Number (LN): 30948; 24081; 3018

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Preparation:

PRE

Reference(s):

1. Sianesi; Redaelli, Anal.Chem., 57 <1967>, 1426,1428,1429,1430, CODEN: ANCHAM

L14 ANSWER 21 OF 22 COPYRIGHT 2002 BEILSTEIN CDS MDLI

Beilstein Reg. No. (BRN): 1173737 Beilstein
Molecular Formula (MF): C22 H26 N2 O2 S
Chemical Name (CN): 4-methyl-3-phenyl-1-(2-piperidin-1-yl-ethyl)-1H-
benzo<c><1,2>thiazine 2,2-dioxide
Autonom Name (AUN): 4-methyl-3-phenyl-1-(2-piperidin-1-yl-ethyl)-1H-
benzo<c><1,2>thiazine 2,2-dioxide
Beilstein Reference (SO): 5-27
Formula Weight (FW): 382.52
Lawson Number (LN): 30947; 24081; 3018

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

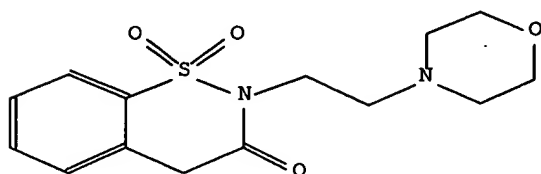
Preparation:

PRE

Reference(s):

1. Sianesi; Redaelli, Anal.Chem., 57 <1967>, 1426,1428,1429,1430, CODEN:
ANCHAM

Beilstein Reg. No. (BRN): 691238 Beilstein
Molecular Formula (MF): C14 H18 N2 O4 S
Chemical Name (CN): 2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,4-dihydro-
2H-1.1lambda.6-benzo<e><1,2>thiazin-3-one
Autonom Name (AUN): 2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,4-dihydro-
2H-1.1lambda.6-benzo<e><1,2>thiazin-3-oneh
Beilstein Reference (SO): 5-27
Formula Weight (FW): 310.37
Lawson Number (LN): 31166; 30824; 3018



Preparation:

PRE

Start: BRN=745644 C8H7NO3S, BRN=3684083 4-(2-chloro-ethyl)-morpholine;
hydrochloride
Reag: K2CO3, Cu
Time: 12 hour(s)
Solv: toluene
Heating
Reference(s):
1. Sianesi, E. et al., J. Med. Chem., 16 <1973>, 1133-1137, LA: EN, CODEN:
JMCMAR

L20 ANSWER 1 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 136:37528 MARPAT
 TI Preparation of indole derivatives for the treatment of CNS disorders
 IN Bang-Andersen, Benny; Felding, Jakob; Kehler, Jan; Andersen, Kim
 PA H. Lundbeck A/S, Den.
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001096328	A1	20011220	WO 2001-DK406	20010613
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	DK 2000-919		20000614		
	US 2000-212445		20000616		
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

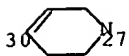
AB The title compds. [I; one of Y1, Y2 = N, which is bound to Y4, and the other Y1 and Y2 = CO, CS, SO, etc; Y4 = CH2, CO, CS, etc.; Y3 = ZCH2, CH2Z, CH2CH2; Z = O, S; W = a bond, O, S, etc.; n = 0-5; m = 0-5; m + n = 1-10; X = C, CH, N; R1-R9 = H, halo, CN, etc.; R10 = H, alkyl, aryl, etc.]

which are dopamine and serotonin receptor ligands, and are useful in the treatment of certain psychiatric and neurol. disorders, i.e. schizophrenia, other psychoses, anxiety disorders, depression, migraine, cognitive disorders, ADHD and sleep improvement, were prepd. and formulated. Thus, reacting 5-fluoro-3-(piperidin-4-yl)-1H-indole with 1-(2-chloroethyl)-3,4-dihydroquinolin-2-(1H)-one in the presence of Et3N in DMF and butanone afforded II which showed 92% inhibition of the binding of [3H]YM-09151-2 to human dopamine D4 receptors at 50 nM.

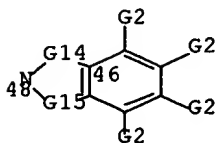
MSTR 1

G1—G7—G9—G16

G7 = 30-1 27-3



G10 = (1-6) CH2
 G14 = CH2CH2
 G15 = SO2
 G16 = 48



MPL: claim 1
 NTE: or pharmaceutically acceptable acid addition salts
 NTE: substitution is restricted

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 2 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 135:288798 MARPAT
 TI Bicyclic sulfonyl amino inhibitors of factor Xa
 IN Li, Wenhao; Marlowe, Charles K.; Scarborough, Robert M.
 PA Cor Therapeutics, Inc., USA
 SO PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001072725	A1	20011004	WO 2001-US9375	20010326
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2000-191715 20000324

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Heterobicyclics I and II (A = N substituted with H, OH, alkyl, alkenyl,
 alkynyl, cycloalkyl, carbocyclic aryl, heterocyclic ring with N, O, S; n

=

0-3; Z = alkyl, alkenyl, alkynyl, cycloalkyl, carbocyclic aryl,
 heterocyclic ring with N, O, S; D = link of O, S, SO₂, N, OC(=O), CO₂,

etc

groups; R = H, halogen, CN, NO₂, OC(=O), or (un)substituted carbon or
 nitrogen group, etc; R₁ and R₂ are independently H, S, OC(=O), CO₂,
 (unsubstituted)-chain or -ring; X = N or (un)substituted C; E and J = O,

N

linked to (unsubstituted)-chain or heterocyclic ring system; G = H, CN,

O,

C(=N)N where the N is bonded to H or carbon group substituted) and their
 pharmaceutically acceptable isomers, salts, hydrates, solvates and

prodrug

derivs. having activity against mammalian factor Xa were prepd.

Pharmaceutical compns. contg. I and II have an IC₅₀ of preferably >

10.0.mu.M in the thrombin assay and more preferred compds. have an IC₅₀

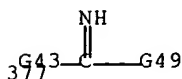
of

> 100.0.mu.M in the thrombin assay. Compns. and derivs. of I and II are
 useful in vitro or in vivo for preventing or treating conditions in
 mammals characterized by undesired thrombosis. Non-bicyclic sulfonyl
 amino compds. were also prepd. and III had an IC₅₀nM of 133,000 for
 thrombin and the structure activity relationship of these aniline based
 diamidine factor Xa inhibitors is documented.

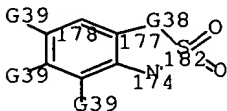
MSTR 1

G1—G35—G18

G18 = 377

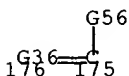


G35 = 178-1 174-3



G36 = CH (SO)

G38 = 176-177 175-182



G43 = (1-2) CH2

G49 = morpholino

MPL: claim 1

NTE: additional ring formation also claimed

NTE: and all pharmaceutically acceptable salts, hydrates, solvates and prodrugs

NTE: substitution is restricted

STE: and all pharmaceutically acceptable isomers

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 18 MARPAT COPYRIGHT 2002 ACS

AN 135:46112 MARPAT

TI Synthesis and use of substituted phenanthridinones as inhibitors of poly-ADP ribose synthase (PARS)

IN Szabo, Csaba; Jagtap, Prakash; Southan, Garry; Salzman, Andrew L.

PA Inotek Corporation, USA

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

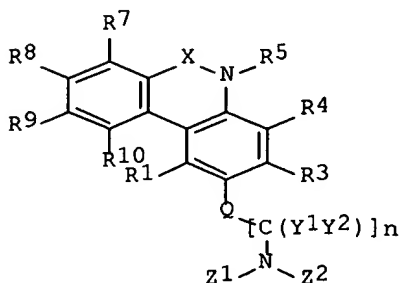
DT Patent

LA English

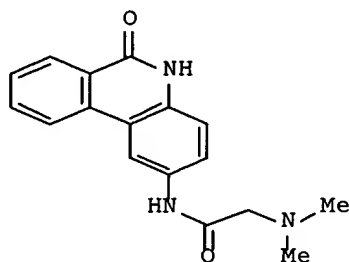
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001042219	A2	20010614	WO 2000-US42656	20001207
	WO 2001042219	A3	20011213		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 6277990	B1	20010821	US 1999-454867	19991207
PRAI	US 1999-454867		19991207		
	US 2000-587181		20000602		
	US 2000-602539		20000622		
	US 2000-606587		20000629		

GI



I



II

AB Compds. I, their prepn. and use are claimed [wherein; X = CO, CS, SO₂, C:NH (or derivs.) or CCl; Q = NHCO, O, CO, OCO₂, OCO, etc.; R₁-10 = H or alkyl; Y₁-2 = H, halo, alkyl(halo), OH, carbocyclic, aryl, etc.; n = 0-10;

Z₁-2 = H, alkylhalo, alk(en/yn)yl, etc. or taken together form a fused ring wherein said ring has 4-8 ring members]. Several examples are given.

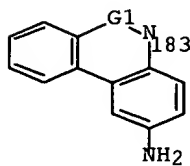
For instance, II is prepd. from acylation of 2-amino-6(5H)-phenanthridinone with chloroacetyl chloride followed by substitution with

di-Me amine. Compds. I are inhibitors of PARS. Compds. I showed efficacy in inflammation in-vitro; inhibition of TNF-.alpha. (II: EC50 = 5.4.mu.M), MIP-1.alpha., MIP-2 and nitric oxide prodn. when exposed to LPS and in-vivo; LPS-induced mortality reduced from 92% to 50% in mice at 20 mg/kg (II, pretreatment). In an oxidant-stimulated thymocyte assay (in-vitro reperfusion model) II was found to provide cytoprotection (70%) at 10nM to 1.mu.M. Using a MCAO model (2 h occlusion, 24 h reperfusion, rat), administration of II (10 mg/kg i.v. injected 5 min prior to reperfusion) was found to give complete protection against mortality (control group 73% mortality). Compds. of the invention were also found to restore vascular function in diabetic mice without altering systemic glucose, glycated Hb or pancreatic insulin levels. Claimed uses of the compds. include treatment of symptoms of multiple sclerosis, prevention/treatment of local/systemic inflammation, prevention/treatment of conditions related to cardiovascular complications of diabetes and enhancing the function of a transplanted organ.

MSTR 2A

G15-G16

G1 = SO2
 G4 = C(O)
 G9 = piperidino
 G15 = 183



MPL: claim 17

L20 ANSWER 4 OF 18 MARPAT COPYRIGHT 2002 ACS

AN 134:222727 MARPAT

TI Preparation of tetrahydroquinazoline-2,4-diones for inhibiting serotonin reuptake or 5-HT_{2A} serotonin receptor binding

IN Butler, Todd William; Fliri, Anton Franz Josef; Gallaschun, Randall James;

Jones, Brian Patrick; Ragan, John Anthony

PA Pfizer Products Inc., USA

SO Eur. Pat. Appl., 35 pp.

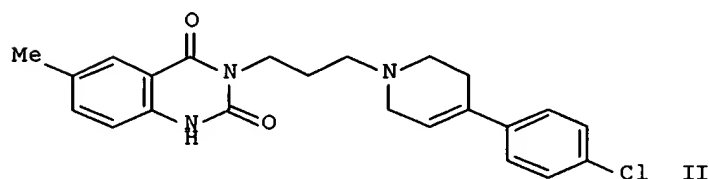
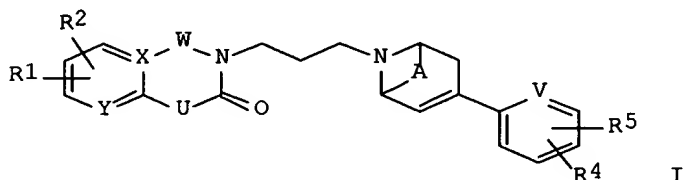
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1083178	A1	20010314	EP 2000-307433	20000830
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001114778	A2	20010424	JP 2000-261115	20000830
PRAI	US 1999-151725	19990831			
GI					



AB The title compds. [I; A = (CH₂)_n (wherein n = 0-2); U = CH₂, NH, NR₃;
R₁,

R₂ = H, alkyl, Cl, etc.; or R₁ and R₂, together with the atoms to which they are attached, form 5-6 membered carbocyclic or heterocyclic ring;

R₃

= H, alkyl, C(O)alkyl; R₄, R₅ = H, alkyl, Cl, etc.; V = CH, CR₃, N; W = CH₂, CO, SO₂; X = C, N; Y = CH, CR₁, CR₂, N] and their pharmaceutically acceptable salts, useful in treating diseases, conditions or disorders

of

the central nervous system, were prep'd. Thus, treatment of Me 2-amino-5-methylbenzoate with triphosgene in the presence of Et₃N in CH₂Cl₂ followed by addn. of 3-[4-(4-chlorophenyl)-3,6-dihydro-2H-pyridin-1-

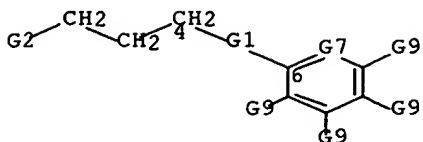
yl]propylamine (prepn. given) afforded 79% II. The exemplified compds.

I

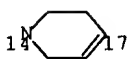
showed more than 50% inhibition at <50 nM in the serotonin reuptake assay

and binding assays for 5-Ht2A serotonin receptor.

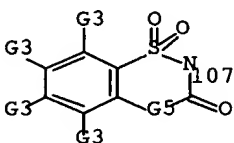
MSTR 1



G1 = 14-4 17-6



G2 = 107



G5 = CH2

MPL: claim 1

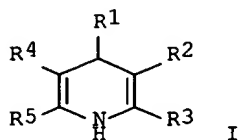
NTE: or pharmaceutically acceptable salts

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE. FORMAT

L20 ANSWER 5 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 132:308329 MARPAT
 TI Preparation of tricyclic heterocycles as potassium channel openers
 IN Carroll, William A.; Agrios, Konstantinos A.; Basha, Fatima Z.; Chen,
 Yiyuan; Kort, Michael E.; Kym, Philip R.; Tang, Rui; Turner, Sean C.;
 Yi,
 Lin
 PA Abbott Laboratories, USA
 SO PCT Int. Appl., 181 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000024741	A2	20000504	WO 1999-US25536	19991028
	WO 2000024741	A3	20000713		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP	1131322	A2	20010912	EP 1999-970991	19991028
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRAI	US 1998-181239		19981028		
	US 1999-421912		19991020		
	WO 1999-US25536		19991028		

GI

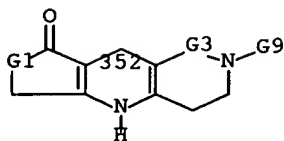


AB Title compds. [I; R1 = aryl or heterocyclyl; R2R3 = D'A'(CHR)m; R = H or alkyl; R4R5 = DA(CH2)n; A = O, S, (un)substituted NH; A' = O, S, (un)substituted NH, CH2; D = CH2 or CO; D' = CH2, CO, SO, SO2; m, n = 1-3]
 were prepd. Thus, 3,4-BrFC6H3CHO was cyclocondensed with MeCOCH2CO2Et and
 NH3 and the brominated product treated with liq. NH3 to give I (R1 = C6H3BrF-3,4, R2R3, R4R5 = CONHCH2). Data for biol. activity of I were given.

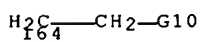
MSTR 1



G3 = SO₂
G6 = 352



G9 = 164



G10 = morpholino
DER: or pharmaceutically acceptable salts, amides, esters or prodrugs
MPL: claim 1
NTE: additional substitution and ring formation also claimed
NTE: substitution is restricted

L20 ANSWER 6 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 131:170632 MARPAT
 TI Novel cyclic sulfonamide derivatives as metalloproteinase inhibitors
 IN Duan, Jingwu; Chen, Lihua; Cherney, Robert J.; Decicco, Carl P.; Voss, Matthew E.
 PA Du Pont Pharmaceuticals Company, USA
 SO PCT Int. Appl., 144 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9941246	A1	19990819	WO 1999-US2767	19990210
	W: AU, CA, IL, JP, MX, NZ				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9925947	A1	19990830	AU 1999-25947	19990210
	EP 1054877	A1	20001129	EP 1999-905898	19990210
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,				

FI

PRAI US 1998-74301 19980211
 WO 1999-US2767 19990210

AB Cyclic sulfonamides ACR1R2NR3SO2CR4:CR5R6 [A = CHO, alkanoyl, CO2H or esters, CHRCO2H (R = H, Me, Et, i-Pr, vinyl, 1- or 2-propenyl), CHRCONHOH, CONHOH or O-substituted derivs., (un)substituted amino, SH, CH2SH, (un)substituted SONH2 or SNH2NH2, P(O)(OH)2, (un)substituted P(O)(OH)NH2; R1 = H, Q (carbocyclic or heterocyclic residue), alkylene-Q, alkenylene-

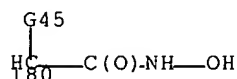
Q,

alkynylene-Q, oxa- or aza-alkylene-Q, etc.; R2 = H, alkylene-H, alkenylene-H, alkynylene-H, oxa- or aza-alkylene-H, etc.; R3 and R5 form an (un)substituted 5-10 membered ring contg. 0-2 addnl. heteroatoms and 0-1 double bonds; R4 and R6 form benzo or (un)substituted heteroarom. ring] were prepd. as metalloprotease inhibitors. Thus, (R)-4,5-dihydro-N-hydroxy-.alpha.-methyl-1,2,5-benzothiadiazepine-2(3H)-acetamide 1,2-dioxide was prepd. starting from the reaction of 2-nitrobenzenesulfonyl chloride with D-alanine Me ester hydrochloride.

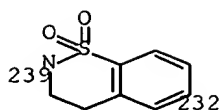
MSTR 1

G1—G19—G28

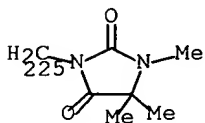
G1 = 180



G19 = 239-2 232-4



G45 = 225



DER: or pharmaceutically acceptable salts
 MPL: claim 1
 NTE: substitution is restricted
 STE: or stereoisomers

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 7 OF 18 MARPAT COPYRIGHT 2002 ACS

AN 130:352182 MARPAT

TI Preparation of hydroxamic and carboxylic acid derivatives having MMP and TNF inhibitory activity

IN Baxter, Andrew Douglas; Owen, David Alan; Montana, John Gary; Nicholson, Elisabeth Jane Reed

PA Darwin Discovery Limited, UK

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

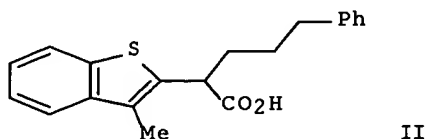
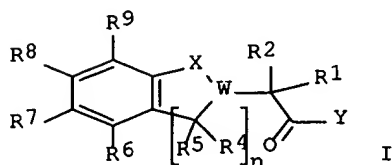
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9924419	A1	19990520	WO 1998-GB3396	19981112
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9910470	A1	19990531	AU 1999-10470	19981112
	EP 1030851	A1	20000830	EP 1998-952928	19981112
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,			
FI	JP 2001522843	T2	20011120	JP 2000-520433	19981112
	US 6310088	B1	20011030	US 2000-564217	20000504
PRAI	GB 1997-23904		19971112		
	GB 1998-14043		19980629		
	US 1997-68793		19971224		
	US 1998-190334		19981112		
	WO 1998-GB3396		19981112		

GI



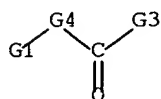
AB The title compds. [I; n =1-2; X = O, S(O)0-2; Y = OH, NHOH; W = CR3, N (when X = SO2); R1 = H, alkyl, alkenyl, etc.; R2 = H, alkyl; CR1R2 = (un)substituted cycloalkyl, heterocycloalkyl; R3-R5 = H, alkyl; R3R4 = a bond; R6-R9 = H, alkyl, aryl, etc.; R6 and R7, R7 and R8, R8 and R9, or when n = 1, R5 and R6, and the carbons to which they are attached may form aryl, heteroaryl, cycloalkenyl, heterocycloalkenyl], useful as therapeutic

agents, by virtue of having MMP and TNF inhibitory activity, were prepd. Thus, treatment of 3-methylbenzo[b]thiophene-2-acetic acid with BuLi/hexanes followed by addn. of 1-bromo-3-phenylpropane afforded 37%

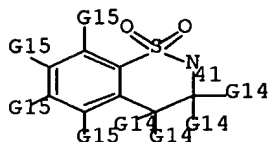
II.

Compds. I are effective at 0.01-50 mg/kg/day.

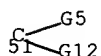
MSTR 1



G1 = 41

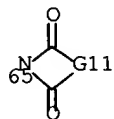


G4 = 51



G5 = alkyl<(1-6)> (SO (1-) G8)

G8 = 65



DER: and salts, solvates, hydrates, N-oxides, and protected amine, carboy,

and hydroxamic derivatives

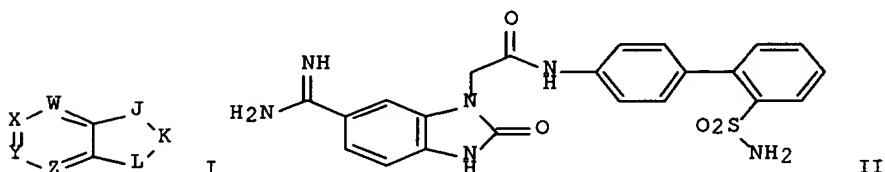
MPL: claim 1

NTE: additional ring formation also claimed

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 8 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 130:237589 MARPAT
 TI Benzimidazolinones, benzoxazolinones, benzopiperazinones, indanones, and derivatives thereof as inhibitors of factor Xa
 IN Han, Qi; Dominguez, Celia; Amparo, Eugene C.; Park, Jeongsong M.; Quan, Mimi L.; Rossi, Karen A.
 PA Du Pont Pharmaceuticals Company, USA
 SO PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9912903	A1	19990318	WO 1998-US18729	19980908
	W: AU, CA, IL, JP, MX, NZ				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9893098	A1	19990329	AU 1998-93098	19980908
	EP 1015429	A1	20000705	EP 1998-945971	19980908
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,				
FI	US 6207697	B1	20010327	US 1998-149826	19980908
	JP 2001515887	T2	20010925	JP 2000-510715	19980908
	US 2001021775	A1	20010913	US 2001-772303	20010129
PRAI	US 1997-58288	19970909			
	US 1998-149826	19980908			
	WO 1998-US18729	19980908			
GI					



AB The application describes inhibitors of factor Xa of formula I or pharmaceutically acceptable salt forms thereof [wherein W, X, Y, and Z may be N or (un)substituted CH, with one substituent being cyano or (un)substituted carbamoyl, aminoalkyl, amidino, guanidino, or formamidino, etc.; and J, K, and L combine to form certain substituted carbocycles or heterocycles bearing certain (un)substituted carbo- or heterocyclic substituents]. For instance, 5-cyanobenzimidazolin-2-one (prepd. from 4-amino-3-nitrobenzonitrile in 2 steps) was deprotonated with NaH in DMF, N-alkylated with a corresponding 4-[(chloroacetyl)amino]biphenyl deriv. to give 2 regioisomeric products, and finally subjected to Pinner reaction at the cyano group, to give title compd. II and its 5-amidino isomer. In

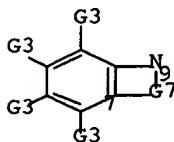
an

assay for factor Xa inhibition in vitro using the chromogenic synthetic substrate S2222, some compds. I had K_i of .ltoreq. 15 .mu.M, indicating effective activity.

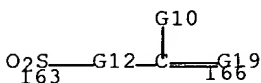
MSTR 1

G1—G20

G1 = 9



G7 = 163-9 166-7

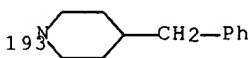


G8 = 196-1 197-55

196-01-93

G19 = CH (SO)

G22 = 193



DER: or pharmaceutically acceptable salts

MPL: claim 1

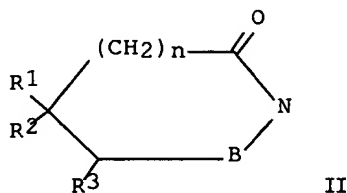
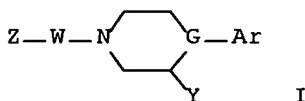
NTE: substitution is restricted

STE: or stereoisomers

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 9 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 129:211720 MARPAT
 TI Dopamine D4 receptor antagonist
 IN Ohno, Yukihiro; Kojima, Atsuyuki; Wakabayashi, Junko; Tagashira, Rie
 PA Sumitomo Pharmaceuticals Co., Ltd., Japan
 SO PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

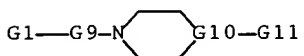
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9837893	A1	19980903	WO 1998-JP744	19980223
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9862306	A1	19980918	AU 1998-62306	19980223
PRAI	JP 1997-59809		19970226		
	WO 1998-JP744		19980223		
GI					



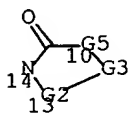
AB An imide deriv. represented by general formula (I) [wherein Z is represented by formula (2) (wherein B represents a carbonyl group or the like; for R1, R2, and R3, R1 and R2 combine with each other to form an optionally substituted hydrocarbon ring with R3 representing a hydrogen atom, or alternatively R1 and R3 may combine with each other to form an optionally substituted hydrocarbon ring with R2 representing a hydrogen atom; and n is 0 or 1), or a group represented by R4CO-NR5- (wherein R4 represents an optionally substituted Ph group or the like; and R5 represents a hydrogen atom or a lower alkyl group); W represents an optionally substituted lower alkylene group or the like, G represents a nitrogen atom or a methine group; Ar represents an optionally substituted pyrimidyl group or the like; and Y represents a hydrogen atom or - (CH2)m- (wherein m is 1, 2 or 3) with the other end being optionally bonded to the o-position of Ar] or a pharmaceutically acceptable salt thereof is an antagonist against a dopamine D4 receptor that does not cause an extrapyramidal syndrom assocd. with dopamine D2 receptor antagonism and

is
 useful as a therapeutic agent for mental disorder, e.g., schizophrenia
 in
 a neg. state or the like and L-DOPA mental disorder during treatment of
 Parkinson's disease.

MSTR 1

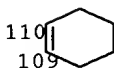


G1 = 14



G2 = SO2

G3 = 110-10 109-13



G5 = CH2

G9 = loweralkylene (SO)

MPL: claim 1

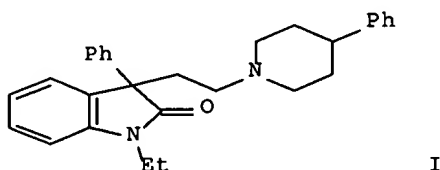
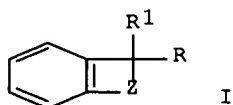
NTE: additional ring formation also claimed

NTE: additional substitution also claimed

L20 ANSWER 10 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 128:140729 MARPAT
 TI Preparation of 3-[2-(4-arylazino)ethyl]-2-indolones and analogs as
 antiincontinence agents
 IN Kato, Kaneyoshi; Doi, Takayuki; Sugiura, Yoshihiro; Kawada, Mitsuru
 PA Takeda Chemical Industries, Ltd., Japan; Kato, Kaneyoshi; Doi, Takayuki;
 Sugiura, Yoshihiro; Kawada, Mitsuru
 SO PCT Int. Appl., 185 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

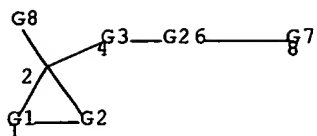
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9802432	A1	19980122	WO 1997-JP2447	19970715
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9734607	A1	19980209	AU 1997-34607	19970715
	JP 10338672	A2	19981222	JP 1997-188831	19970715
PRAI	JP 1996-186025		19960716		
	JP 1997-87980		19970407		
	WO 1997-JP2447		19970715		

GI

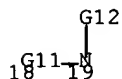


AB Title compds. [(ring-substituted) I; R = (CH₂)_mZ₁Z₂R₂; R₁, R₂ =
 (un)substituted aryl; Z = atoms to complete a (heterocyclic) ring; Z₁ =
 (un)substituted N-attached heterocyclylene; Z₂ = bond or (oxo)alkylene;
 m
 = 1-3] were prepd. Thus, PhCH₂CO₂Et was arylated by 4-FC₆H₄NO₂ and the
 cyclized product converted in 3 steps to title compd. II. Data for
 biol.
 activity of I were given.

MSTR 1

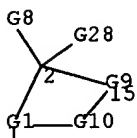


G1 = o-C6H4 (SO G20)
 G9 = (0-2) CH2
 G10 = 18-1 19-15

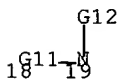


G11 = SO2
 G12 = alkyl<(1-6)> (SO (1-5) G21)
 G21 = phthalimido
 DER: or salts
 MPL: claim 1

MSTR 2



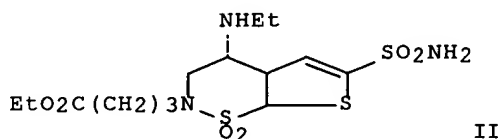
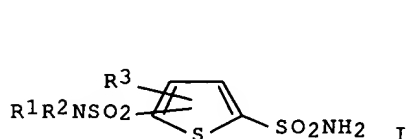
G1 = o-C6H4 (SO G20)
 G9 = (0-2) CH2
 G10 = 18-1 19-15



G11 = SO2
 G22 = N
 G30 = C(O)
 DER: or salts
 MPL: claim 21

L20 ANSWER 11 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 126:144282 MARPAT
 TI Preparation of thieno[3,2-e]-1,2-thiazine-6-sulfonamides useful as carbonic anhydrase inhibitors
 IN Dean, Thomas R.; May, Jesse A.; Chen, Hwang-hsing
 PA Alcon Laboratories, Inc., USA
 SO U.S., 17 pp. Cont.-in-part of U.S. 5,378,703.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 4

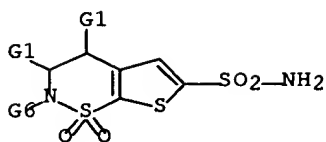
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5585377	A	19961217	US 1994-362716	19941223
	US 5153192	A	19921006	US 1990-618765	19901127
	ZA 9102580	A	19920129	ZA 1991-2580	19910408
	US 5240923	A	19930831	US 1991-775313	19911009
	US 5378703	A	19950103	US 1993-19011	19930218
PRAI	US 1990-506730	19900409			
	US 1990-618765	19901127			
	US 1991-775313	19911009			
	US 1993-19011	19930218			
	US 1990-506780	19900409			
GI					



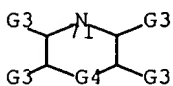
AB Thiophenesulfonamides [I; R1 and R3 are each satd. carbon atoms joined together to form an (un)substituted ring of 6 members; R2 = C1-8 alkyl substituted with COR7, C2-8 alkyl substituted with O2CR7, NHCOR7; R7 = C1-8 alkyl, (un)substituted C1-8 alkyl, C1-4 alkoxy, C2-4 alkoxy, (un)substituted NH2, Ph or R10; R10 = a monocyclic ring system selected from the group consisting of furan, thiophene, pyrrole, pyrazole, imidazole, triazole, tetrazole, oxazole, isoxazole, isothiazole, thiazole, thiadiazole, pyridine, pyrimidine, pyridazine, and pyrazine] and pharmaceutical compns. contg. the compds. useful in controlling intraocular pressure are disclosed. Methods for controlling intraocular pressure through administration of the compns. are also disclosed.

These compds. are useful as carbonic anhydrase inhibitors and also for treatment of glaucoma (no data). Thus, (S)-N-(1,1-dimethylethyl)-3,4-dihydro-4-hydroxy-2H-thieno[3,2-e]-1,2-thiazine-6-sulfonamide 1,1-dioxide (prepn. given) was treated with NaH in DMF at 0.degree. for 20 min and alkylated by Et 4-bromobutyrate at room temp. for 6 h to give Et (S)-6-[(1,1-dimethylethyl)amino]sulfonyl]-3,4-dihydro-4-hydroxy-2H-thieno[3,2-e]-1,2-thiazine-2-butanoate hydrochloride. The latter compd. was tosylated by tosyl chloride in THF contg. Et3N and underwent amination with aq. ethylamine at room temp. overnight, followed by treatment with CF3CO2H at room temp. for 18 h to give the title compd. (II.HCl). Ophthalmic gel, soln., and suspension contg. II.HCl were formulated.

MSTR 1A

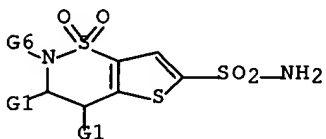


G1 = alkyl<(1-4)> (SO (1-) G8)
G8 = 71

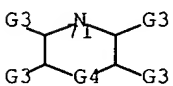


DER: or pharmaceutically acceptable salts
MPL: claim 1
NTE: G3 groups may form oxo
STE: 207-S

MSTR 1B

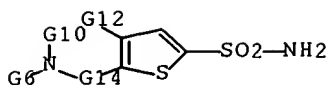


G1 = alkyl<(1-4)> (SO (1-) G8)
G8 = 71

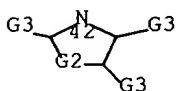


DER: or pharmaceutically acceptable salts
MPL: claim 1
NTE: G3 groups may form oxo
STE: 207-S

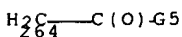
MSTR 2A



G5 = 42

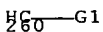


G6 = 264



G14 = SO2

G15 = (1-3) 260



DER: or pharmaceutically acceptable salts

MPL: disclosure

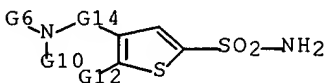
NTE: substitution is restricted

NTE: G3 groups may form oxo

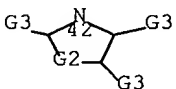
NTE: G6 and G10 may form a ring

STE: 207-S

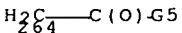
MSTR 2B



G5 = 42

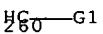


G6 = 264



G14 = SO2

G15 = (1-3) 260



DER: or pharmaceutically acceptable salts

MPL: disclosure

NTE: substitution is restricted

NTE: G3 groups may form oxo

NTE: G6 and G10 may form a ring

STE: 207-S

L20 ANSWER 12 OF 18 MARPAT COPYRIGHT 2002 ACS

AN 125:167794 MARPAT

TI Preparation of indolylpiperidine dopaminergic agonists and antagonists

IN Maerz, Joachim; Greiner, hartmut; Seyfried, Christoph; Bartoszyk, Gerd

PA Merck Patent Gmbh, Germany

SO Ger. Offen., 15 pp.

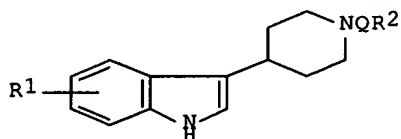
CODEN: GWXXBX

DT Patent

LA German

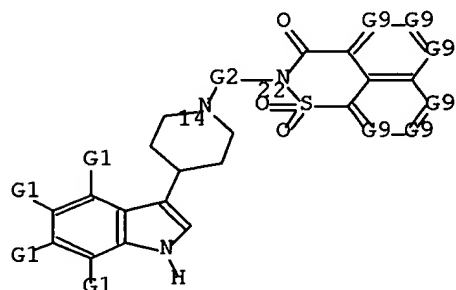
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19500689	A1	19960718	DE 1995-19500689	19950112
	AU 9640862	A1	19960718	AU 1996-40862	19960108
	AU 704484	B2	19990422		
	CA 2166958	AA	19960713	CA 1996-2166958	19960110
	EP 722942	A1	19960724	EP 1996-100253	19960110
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	SK 281080	B6	20001107	SK 1996-43	19960110
	NO 9600125	A	19960715	NO 1996-125	19960111
	ZA 9600228	A	19960726	ZA 1996-228	19960111
	CN 1133840	A	19961023	CN 1996-100424	19960111
	JP 08253474	A2	19961001	JP 1996-20619	19960112
	US 5670511	A	19970923	US 1996-586273	19960116
PRAI	DE 1995-19500689		19950112		
GI					



AB The title compds. [I; Q = (un)branched alkylene or oxyalkylene; R1 = H, alkyl, alkoxy, halogen, CF3, OCF3, etc.; R2 = arylcarbonylamino, arylsulfonylamino, etc.], useful as CNS agents (no data), are prepd. and I-contg. formulations presented. Thus, 2-(2-chloroethyl)-2,3-dihydro-1H-benz[de]isoquinoline-1,3-dione was reacted with 4-(5-fluoroindol-3-yl)piperidine, producing 2-[2-[4-(5-fluoro-3-indolyl)piperidino]ethyl]-2,3-dihydro-1H-benz[de]isoquinoline-1,3-dione tetrahydrate, m.p. 235.degree..

MSTR 1B



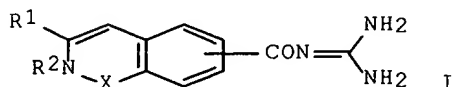
G2 = alkylene<(1-4)>

DER: and physiologically acceptable salts

MPL: claim 1

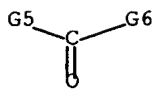
L20 ANSWER 13 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 123:256744 MARPAT
 TI Preparation of 1-oxo-1,2-dihydroisoquinolinoyl- and 1,1-dioxo-2H-1,2-benzothiazinoylguanidines as sodium-proton antiporter inhibitors.
 IN Weichert, Andreas; Kleemann, Heinz-Werner; Lang, Hans-Jochen; Schwark, Jan-Robert; Albus, Udo; Scholz, Wolfgang
 PA Hoechst A.-G., Germany
 SO Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 659748	A1	19950628	EP 1994-120069	19941219
	EP 659748	B1	20000712		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	DE 4344550	A1	19950629	DE 1993-4344550	19931224
	CA 2138466	AA	19950625	CA 1994-2138466	19941219
	AT 194605	E	20000715	AT 1994-120069	19941219
	ES 2149233	T3	20001101	ES 1994-120069	19941219
	FI 9406039	A	19950625	FI 1994-6039	19941222
	AU 9481700	A1	19950629	AU 1994-81700	19941222
	AU 683320	B2	19971106		
	ZA 9410242	A	19950802	ZA 1994-10242	19941222
	JP 07206823	A2	19950808	JP 1994-319592	19941222
	CN 1107840	A	19950906	CN 1994-119193	19941222
	CN 1053899	B	20000628		
	HU 72749	A2	19960528	HU 1994-3759	19941222
	US 5547953	A	19960820	US 1994-362003	19941222
	NO 9405015	A	19950626	NO 1994-5015	19941223
PRAI	DE 1993-4344550		19931224		
GI					

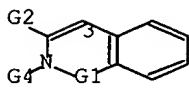


AB Title compds. [I; X = CO, SO₂; R₁ = H, (substituted) alkyl, cycloalkyl, Ph; R₂ = H, alkyl], were prepd. Thus, Me 4-bromo-3-sulfamoylbenzoate (prepn. given) was coupled with phenylacetylene using (PPh₃)₂PdCl₂, CuI, and BuNH₂ to give the 4-phenylethynyl deriv., which was cyclized using Hg(OAc)₂ in conc. H₂SO₄ to give Me 1,1-dioxo-3-phenyl-2H-1,2-benzothiazin-7-carboxylate. The latter was transformed to 1,1-dioxo-3-phenyl-2H-1,2-benzothiazin-7-carboxylic acid guanidide hydrochloride. This inhibited sodium-proton antiporter from rabbit erythrocytes with IC₅₀ = 0.9 .times. 10⁻⁶ M.

MSTR 2



G1 = SO₂
 G5 = 3



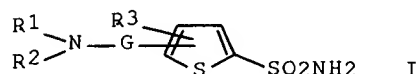
G6 = 77



MPL: claim 4

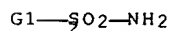
L20 ANSWER 14 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 123:83377 MARPAT
 TI Sulfonamides useful as carbonic anhydrase inhibitors
 IN Dean, Thomas R.; Chen, Hwang-Hsing; May, Jesse A.
 PA Alcon Laboratories, Inc., USA
 SO U.S., 25 pp. Cont.-in-part of U.S. 5,240,923.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5378703	A	19950103	US 1993-19011	19930218
	US 5153192	A	19921006	US 1990-618765	19901127
	US 5240923	A	19930831	US 1991-775313	19911009
	US 5679670	A	19971021	US 1994-357623	19941215
	US 5585377	A	19961217	US 1994-362716	19941223
PRAI	US 1990-506780		19900409		
	US 1990-618765		19901127		
	US 1991-775313		19911009		
	US 1990-506730		19900409		
	US 1993-19011		19930218		
GI					

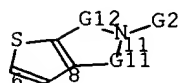


AB Sulfonamides I [R1 and R3 are each satd. carbon atoms joined together to form a ring of 6 members in which said carbon atoms can be unsubstituted or substituted optionally with R4; R2 is e.g., H; C1-8 alkyl; C2-8 alkyl substituted with OH; R4 is e.g., OH; C1-4 alkyl unsubstituted or substituted optionally with OH] and pharmaceutical compns. contg. the compds. useful in controlling intraocular pressure (no data) are disclosed. Methods for controlling intraocular pressure through administration of the compns. are also disclosed. Ophthalmic formulations were given.

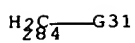
MSTR 2



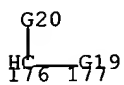
G1 = 6



G2 = 284

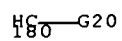


G11 = 176-8 177-11



G12 = SO2

G19 = (0-2) 180



G31 = morpholino

DER: or pharmaceutically acceptable salts

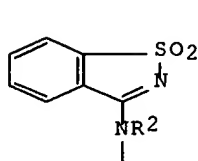
MPL: disclosure

NTE: substitution is restricted

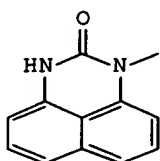
L20 ANSWER 15 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 118:219850 MARPAT
 TI Preparation of serotoninergic antagonists for pharmaceuticals
 IN Damour, Dominique; Labaudiniere, Richard; Malleron, Jean Luc; Mignani, Serge
 PA Rhone-Poulenc Rorer SA, Fr.
 SO Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 511073	A1	19921028	EP 1992-401109	19920421
	R: PT				
	FR 2675802	A1	19921030	FR 1991-5170	19910426
	FR 2675802	B1	19931224		
	CA 2103562	AA	19921027	CA 1992-2103562	19920421
	WO 9219624	A1	19921112	WO 1992-FR354	19920421
	W: CA, FI, JP, NO, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	EP 583322	A1	19940223	EP 1992-909776	19920421
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 06507162	T2	19940811	JP 1992-509239	19920421
	NO 9303121	A	19930901	NO 1993-3121	19930901
	US 5563144	A	19961008	US 1995-470726	19950606
PRAI	FR 1991-5170		19910426		
	WO 1992-FR354		19920421		
	US 1993-137091		19931026		

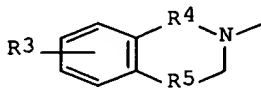
GI



I



II



III

AB R1(CH2)n-Het (where R1 = I, II, III; n = 1-4; Het = e.g., 4-phenyl-1,2,3,6-tetrahydro-1-pyridyl; R2 = H, Ph; R3 = H, halo, heterocycle; R4 = CO, SO2; R5 = SiMe2, CMe2) are prepd. for use in treatment of diseases involving serotonin. Thus, 3-(3-chloropropyl)-

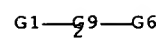
1,1-

dimethyl-5-fluoro-4-oxo-1,2,3,4-tetrahydro-3,1-benzazasiline was treated with 1-phenylpiperazine in the presence of Et3N in toluene soln. to give 1,1-dimethyl-5-fluoro-4-oxo-3-[3-(4-phenyl-1-piperazinyl)propyl]-

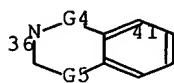
1,2,3,4-

tetrahydro-3,1-benzazasiline. Tablets contg. 50 mg of this compd. were prepd.

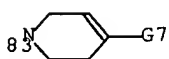
MSTR 1



G3 = 36-2 41-34



G4 = SO₂
 G5 = CMe₂
 G6 = 83



G9 = (1-4) CH₂
 DER: and mineral or organic acid salts
 MPL: claim 1
 NTE: substitution is restricted

L20 ANSWER 16 OF 18 MARPAT COPYRIGHT 2002 ACS

AN 115:239772 MARPAT

TI Pharmaceutical compositions containing [4-(2-pyrimidinyl)-1-piperazinyl]butyl derivatives for treatment of intestinal motility disorders

IN Croci, Tiziano; Bianchetti, Alberto; Manara, Luciano

PA Midy S.p.A., Italy

SO Fr. Demande, 12 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

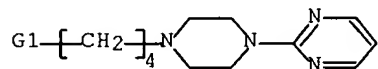
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2654934	A1	19910531	FR 1989-15734	19891129
	FR 2654934	B1	19940930		

AB Pharmaceutical compns. contg. the title derivs. (Markush included) are provided for treatment of intestinal motility disorders, esp. constipation. Tablet formulations of buspirone-HCl and of gepirone-HCl and a dragee formulation of buspirone-HCl are included.

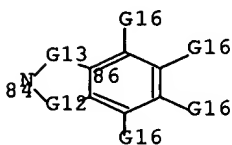
Anticonstipation

activity was tested in rats.

MSTR 1



G1 = 84



G12 = SO2

G13 = 91-84 92-86 / 92-84 91-86

G14 = CH2

DER: and pharmaceutically acceptable salts

MPL: claim 1

L20 ANSWER 17 OF 18 MARPAT COPYRIGHT 2002 ACS
 AN 113:115087 MARPAT
 TI Aminomethyltetralins, -chromanes, and related compounds as CNS agents
 IN Junge, Bodo; Schohe, Rudolf; Seidel, Peter Rudolf; Glaser, Thomas;
 Traber,
 Joerg; Benz, Ulrich; Schuurman, Teunis; De Vry, Jean Marie Viktor
 PA Bayer A.-G., Fed. Rep. Ger.
 SO Ger. Offen., 63 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3901814	A1	19900201	DE 1989-3901814	19890123
	NO 8902892	A	19900129	NO 1989-2892	19890713
	NO 177144	B	19950418		
	NO 177144	C	19950726		
	EP 352613	A2	19900131	EP 1989-113220	19890719
	EP 352613	A3	19901128		
	EP 352613	B1	19940420		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 104668	E	19940515	AT 1989-113220	19890719
	ES 2052829	T3	19940716	ES 1989-113220	19890719
	FI 8903571	A	19900129	FI 1989-3571	19890726
	FI 95246	B	19950929		
	FI 95246	C	19960110		
	AU 8938989	A1	19900201	AU 1989-38989	19890726
	AU 627478	B2	19920827		
	DD 287500	A5	19910228	DD 1989-331171	19890726
	DK 8903713	A	19900129	DK 1989-3713	19890727
	ZA 8905713	A	19900425	ZA 1989-5713	19890727
	HU 58036	A2	19920128	HU 1989-3833	19890727
	IL 91126	A1	19950330	IL 1989-91126	19890727
	CN 1039809	A	19900221	CN 1989-105487	19890728
	CN 1024667	B	19940525		
	JP 02096552	A2	19900409	JP 1989-194467	19890728
	JP 2963107	B2	19991012		
	US 5137901	A	19920811	US 1989-412694	19890926
	US 5300523	A	19940405	US 1992-864953	19920407
	US 5506246	A	19960409	US 1993-171941	19931221
	US 5585392	A	19961217	US 1995-484541	19950607
PRAI	DE 1988-3825609		19880728		
	DE 1989-3901814		19890123		
	US 1989-378732		19890712		
	EP 1989-113220		19890719		
	US 1989-412694		19890926		
	US 1992-864853		19920407		
	US 1992-864953		19920407		
	US 1993-171941		19931221		
GI					

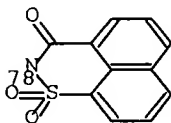
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; A, D = CH₂, O, S, NH, CH, N; B, C = CH₂, CH, N; E, F = H, alkyl, alkoxy, halo, NO₂, cyano, CF₃, CF₃O, aminocarbonyl; EF = atoms to complete an (unsatd.) carbocyclic ring; Y = (unsatd.) alkylene; Z = NH₂, CO₂H, alkoxy carbonyl, alkylthio, alkylsulfonyl, CONH₂, NHQ1, Q2-Q5, etc.; R1 = H, alkyl, aralkyl, heteroarylalkyl, YZ] were prepd. as 5-HT1A antagonists (no data). Thus, a mixt. of 2-aminomethyl-8-methoxytetralin, Et₃N, 2-(4-bromobutyl)-1,2-benzisothiazol-3(2H)-one 1,1-dioxide, and DMF was stirred 24 h at 40.degree. to give 15% dialkylated deriv. II and 28% of the monoalkylated deriv.

MSTR 5C

G5—C(O)—G1—G2

G1 = Ak<(1-5)>
G2 = 78



G5 = imidazolyl
MPL: claim 5

L20 ANSWER 18 OF 18 MARPAT COPYRIGHT 2002 ACS

AN 112:178657 MARPAT

TI Preparation of 1,3,4,5-tetrahydrobenz[c,d]indoles as drugs

IN Junge, Bodo; Richter, Bernd; Glaser, Thomas; Traber, Joerg

PA Bayer A.-G., Fed. Rep. Ger.

SO Eur. Pat. Appl., 50 pp.

CODEN: EPXXDW

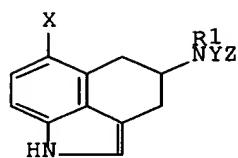
DT Patent

LA German

FAN.CNT 1

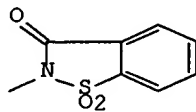
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 332968	A1	19890920	EP 1989-103871	19890306
	EP 332968	B1	19930602		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	DE 3809155	A1	19890928	DE 1988-3809155	19880318
	NO 8900892	A	19890919	NO 1989-892	19890302
	AT 90093	E	19930615	AT 1989-103871	19890306
	ES 2058365	T3	19941101	ES 1989-103871	19890306
	US 5021438	A	19910604	US 1989-324518	19890315
	IL 89623	A1	19930114	IL 1989-89623	19890315
	FI 8901252	A	19890919	FI 1989-1252	19890316
	DD 283606	A5	19901017	DD 1989-326650	19890316
	DK 8901317	A	19890919	DK 1989-1317	19890317
	ZA 8902049	A	19891129	ZA 1989-2049	19890317
	HU 50767	A2	19900328	HU 1989-1258	19890317
	HU 204034	B	19911128		
	JP 02204479	A2	19900814	JP 1989-64053	19890317
	CN 1036566	A	19891025	CN 1989-101472	19890318
	AU 8931526	A1	19890928	AU 1989-31526	19890320
	AU 614343	B2	19910829		
PRAI	DE 1988-3809155		19880318		
	EP 1989-103871		19890306		

GI

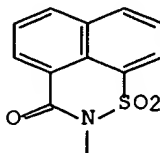


I

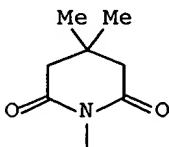
Q1=



Q2=



Q3=



AB The title compds. [I; R1 = H, alkyl, aralkyl, heteroarylalkyl; X = H, OMe,

OH, SMe, halo, cyano, CONH2; Y = alkylene; Z = cyano, NR2R3, OR4, SOR5, CO2R6, CONR7R8; R2, R3 = H, (cyclo)alkyl, alkenyl, (substituted) aryl,

aralkyl, COR9, SO2R10; R2R3 = Q1, Q2, Q3, etc.; R4 = H, (cyclo)alkyl, alkenyl, aryl, aralkyl, acyl, alkoxycarbonyl, etc.; R5 = (cyclo)alkyl, alkenyl, (substituted) aryl, aralkyl, NR7R8; R6 = H, (cyclo)alkyl, alkenyl, aryl, aralkyl; R7, R8 = H, R6; R9 = H, amino, alkyl, alkoxy, (substituted) aryl, aralkyl, aralkoxy, heteroaryl; R10 = (substituted) alkyl, aryl, aralkyl, heteroaryl, NR7R8; m = 0-2], useful as central nervous system agents, were prepd. Thus, 6-methoxy-4-amino-1,3,4,5-tetrahydrobenz[c,d]indole and Et3N in DMF were treated dropwise with 2-(4-bromobutyl)-1,2-benzisothiazol-3(2H)-one 1,1-dioxide in DMF and the mixt. was stirred 4 h at 50.degree. to give I [R1 = H, X = OMe, Y = (CH2)4, Z = Q1]. I bound to 5 HT1 receptors with IC values of 0.7-8 nmol/L. Several I showed antidepressant activity.

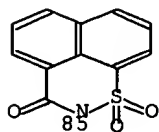
MSTR 6C

G4—G5

G3 = Ak<(-5)>
G4 = 17

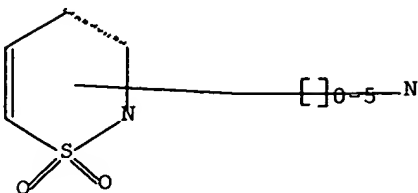
₁G³—C(O)-G8

G5 = 85



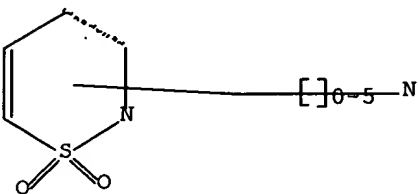
G8 = imidazolyl
MPL: claim 6

=> d l1; d l5; d his
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

(FILE 'HOME' ENTERED AT 14:38:57 ON 01 FEB 2002)

FILE 'REGISTRY' ENTERED AT 14:39:04 ON 01 FEB 2002
L1 STRUCTURE UPLOADED
L2 8 S L1
L3 274 S L1 FUL

FILE 'CAPLUS' ENTERED AT 14:39:36 ON 01 FEB 2002
L4 52 S L3

FILE 'STNGUIDE' ENTERED AT 14:39:44 ON 01 FEB 2002

FILE 'REGISTRY' ENTERED AT 14:40:06 ON 01 FEB 2002
L5 STRUCTURE UPLOADED
L6 2 S L5 SAM SUB=L3
L7 18 S L5 FUL SUB=L3
L8 256 S L3 NOT L7

FILE 'CAPLUS' ENTERED AT 14:41:08 ON 01 FEB 2002
L9 49 S L8

FILE 'BEILSTEIN' ENTERED AT 14:45:38 ON 01 FEB 2002
L10 5 S L1
L11 50 S L1 FUL
L12 2 S L5 SUB=L11 FUL
L13 48 S L11 NOT L12
L14 22 S L13 NOT L9

FILE 'MARPAT' ENTERED AT 14:48:04 ON 01 FEB 2002
L15 5 S L1
L16 30 S L1 FUL

L17 19 S L16 NOT L9
 L18 0 S L5 SUB=L16 SAM
 L19 1 S L5 FUL SUB=L16
 L20 18 S L17 NOT L19

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

199.30

931.11

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

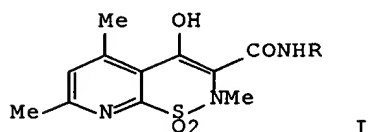
-10.62

-40.98

STN INTERNATIONAL LOGOFF AT 14:51:38 ON 01 FEB 2002

L9 ANSWER 25 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:102026 CAPLUS
 DN 114:102026
 TI Preparation of amides of 2H-4-hydroxy-2,5,7-trimethylpyrido[3,2-e]-1,2-thiazine-2-carboxylic acid 1,1-dioxide as antiinflammatories and immunosuppressants
 IN Malinka, Wieslaw; Zawisza, Tadeusz; Gieldanowski, Jerzy
 PA Akademia Medyczna, Wroclaw, Pol.
 SO Pol., 3 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 139585	B2	19870228	PL 1985-253057	19850422
GI					



AB The title compds. (I; R = Ph, cyclohexyl, 2-thiazolyl, 2-pyridyl; or NHR is replaced by 4-methylpiperazino), with antiinflammatory and immunosuppressive activities (no data), were prepd. by amidation of Et 2H-4-hydroxy-2,5,7-trimethylpyrido[3,2-e]-1,2-thiazine-3-carboxylate 1,1-dioxide with corresponding amines in boiling xylene under N in the presence of type 4A mol. sieves (Soxhlet extractor, 2 equiv amine).

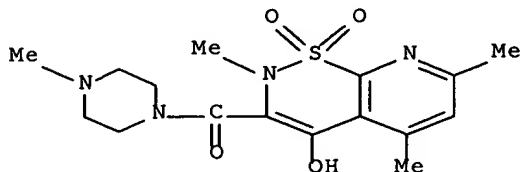
Resp. yields were 81, 90, 84, 82, and 35%.

IT **109418-08-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as antiinflammatory and immunosuppressant)

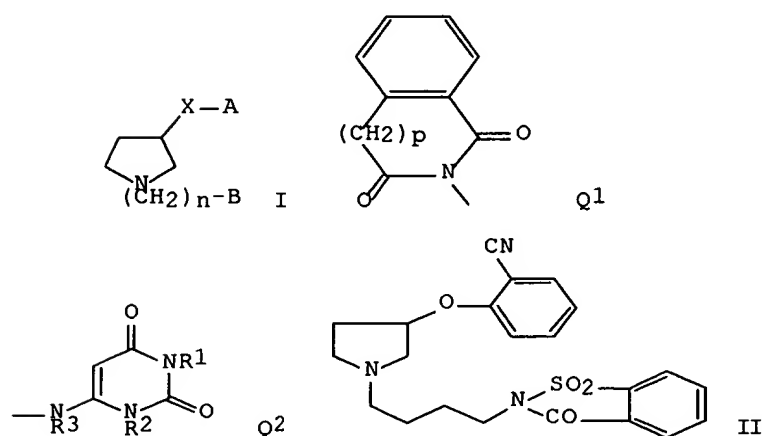
RN 109418-08-8 CAPLUS

CN Piperazine, 1-[(4-hydroxy-2,5,7-trimethyl-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-3-yl)carbonyl]-4-methyl- (9CI) (CA INDEX NAME)



L9 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1990:235290 CAPLUS
 DN 112:235290
 TI Preparation of 1,3-disubstituted pyrrolidines as serotonin (partial)
 agonists and antagonists
 IN Schohe, Rudolf; Seidel, Peter Rudolf; Traber, Jorg; Glaser, Thomas
 PA Bayer A.-G., Fed. Rep. Ger.
 SO Eur. Pat. Appl., 50 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 338331	A1	19891025	EP 1989-106023	19890406
	EP 338331	B1	19921021		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
	DE 3835291	A1	19891102	DE 1988-3835291	19881015
	AT 81652	E	19921115	AT 1989-106023	19890406
	ES 2045229	T3	19940116	ES 1989-106023	19890406
	US 5037841	A	19910806	US 1989-336977	19890412
	AU 8933059	A1	19891026	AU 1989-33059	19890414
	AU 625817	B2	19920716		
	IL 89973	A1	19930131	IL 1989-89973	19890417
	DK 8901864	A	19891020	DK 1989-1864	19890418
	JP 01311059	A2	19891215	JP 1989-96549	19890418
	ZA 8902823	A	19891227	ZA 1989-2823	19890418
	US 5274097	A	19931228	US 1991-682785	19910409
	US 5453437	A	19950926	US 1993-118376	19930908
PRAI	DE 1988-3812989		19880419		
	DE 1988-3835291		19881015		
	EP 1989-106023		19890406		
	US 1989-336927		19890412		
	US 1989-336977		19890412		
	US 1991-682785		19910409		
OS	CASREACT 112:235290; MARPAT 112:235290				
GI					



AB The title compds. [I; A = (fused) heteroaryl; B = cyano, CO₂R₁, CONR₂R₃, SO₂NR₂R₃, SOmR₄, NR₅R₆, C.tplbond.CCH₂NR₅R₆; X = OCH₂, CH₂O, O; R₁ = H, C1-12 alkyl, C5-8 cycloalkyl, C2-12 alkenyl, aryl, aralkyl; R₂, R₃ = H, C1-17 alkyl, (un)substituted aryl, etc.; R₅, R₆ = COR₂, SO₂R₈, any of definitions for R₂, R₃; R₇ = NHR₉, C1-12 alkyl, C1-17 alkoxy, etc.; R₈ = C5-8 cycloalkyl, (un)substituted C1-12 alkyl, (un)substituted (hetero)aryl, NR₂R₃; R₉ = H, C5-8 cycloalkyl, (un)substituted C1-12

alkyl,

aralkyl, (hetero)aryl, etc.; NR₅R₆ can form a (fused) heterocyclic ring, e.g., Q1, Q2, etc.; n = 1-10; n = 0-2] and their salts were prepd. as 5-hydroxytryptamine agonists, partial agonists (no data), and

antagonists,

useful for treatment of serotonergic system-related CNS diseases. A mixt. of 3-(2-cyanophenoxy)pyrrolidine, 2-(4-bromobutyl)benzothiazol-

3(2H)-

one-1,1-dioxide, and Et₃N in DMF was stirred 20 h at 45.degree. to give

II

which was converted to its oxalate. The latter in vitro antagonized serotonin with an inhibition const. K_i = 2 nM.

IT **127341-98-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as serotonin agonist or antagonist)

RN 127341-98-4 CAPLUS

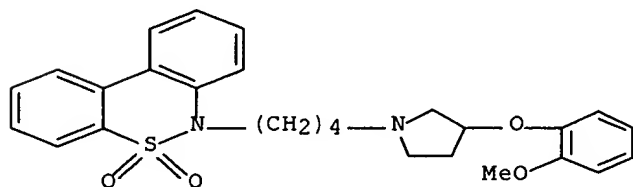
CN 1,5-Naphthalenedisulfonic acid, compd. with 6-[4-[3-(2-methoxyphenoxy)-1-

pyrrolidinyl]butyl]-6H-dibenzo[c,e][1,2]thiazine 5,5-dioxide (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 127341-97-3

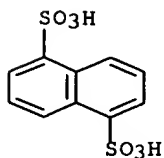
CMF C27 H30 N2 O4 S



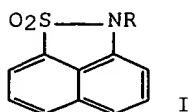
CM 2

CRN 81-04-9

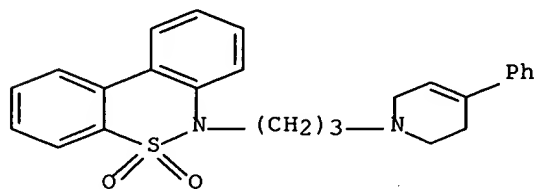
CMF C10 H8 O6 S2



L9 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:492161 CAPLUS
 DN 115:92161
 TI Naphthosultam derivatives: a new class of potent and selective 5-HT₂ antagonists
 AU Malleron, Jean Luc; Comte, Marie Therese; Gueremy, Claude; Peyronel, Jean
 Francis; Truchon, Alain; Blanchard, Jean Charles; Doble, Adam; Piot, Odile; Zundel, Jean Luc; et al.
 CS Cent. Rech. Vitry Alfortville, Rhone-Poulenc Rorer, Vitry-sur-Seine, F-94403, Fr.
 SO J. Med. Chem. (1991), 34(8), 2477-83
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 GI



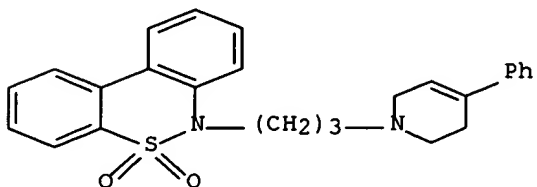
AB A series of 2-(aminoalkyl)naphtho[1,8-cd]isothiazole 1,1-dioxides I (R = aminoalkyl) was synthesized from I (R = H) and examd. in various receptor binding tests. Most compds. demonstrated high affinity for the 5-HT₂ receptor with moderate to high selectivity. A member of this series, compd. I [R = 3-[4-(p-fluorophenyl)piperazino]propyl] (RP 62203), displays high 5-HT₂ receptor affinity (K_i = 0.26 nM), which is resp. more than 100 and 1000 times higher than its affinity for .alpha.1 (K_i = 38 nM) and D2 (K_i >1000 nM) receptors. This compd. is a potent orally effective and long lasting 5-HT₂ antagonist in the mescaline-induced head-twitches test in mice and rats.
 IT **134133-55-4P 134133-67-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 134133-55-4 CAPLUS
 CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[3-(3,6-dihydro-4-phenyl-1(2H)-pyridinyl)propyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



RN 134133-67-8 CAPLUS
 CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[3-(3,6-dihydro-4-phenyl-1(2H)-pyridinyl)propyl]-, 5,5-dioxide, ethanedioate (1:1) (9CI) (CA INDEX NAME)

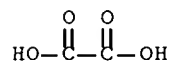
CM 1

CRN 134133-55-4
 CMF C26 H26 N2 O2 S

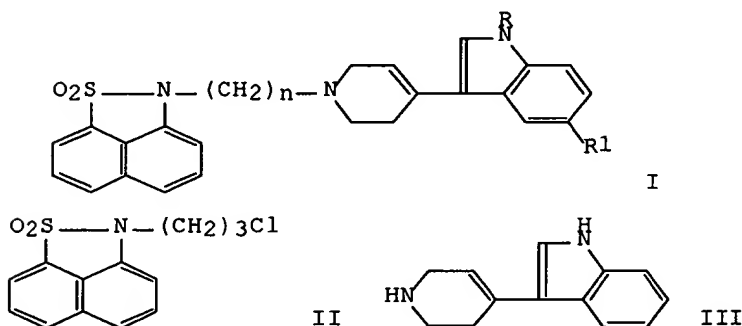


CM 2

CRN 144-62-7
 CMF C2 H2 O4



L9 ANSWER 21 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1993:408726 CAPLUS
 DN 119:8726
 TI New indole derivatives as potent and selective serotonin uptake inhibitors
 AU Malleron, Jean Luc; Gueremy, Claude; Mignani, Serge; Peyronel, Jean Francois; Truchon, Alain; Blanchard, Jean Charles; Doble, Adam; Laduron, Pierre; Piot, Odile; et al.
 CS Dep. Chim. Pharm. Biol., Cent. Recher. Vitry-Alfortville, Vitry-sur-Seine, F.94403, Fr.
 SO J. Med. Chem. (1993), 36(9), 1194-202
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 GI



AB A series of new indole derivs., e.g., I (R = H, Me, COMe, R1 = H, OMe, OH, Cl, Br, F, n = 2-4), has been prep'd. in the search for novel 5-HT uptake inhibitors. These compds. were obtained by the condensation of N-(chloroalkyl)naphthalenesulfonamide derivs., e.g., II, with the appropriate amine, e.g., pyridinylindole III, in presence of a base, at reflux of DMF or THF. The yields were moderate (12-56%), except for a piperazine deriv. (85%). The affinity of the compds. for uptake site and 5-HT₂, α_1 , and D₂ receptors was measured. Some compds. were studied in vivo by their potentiating effect of 5-HTP-induced symptomatology. The most potent and selective (uptake, 5-HT₂ vs. α_1 , D₂ sites) compds. contain a 3-[(4-piperidinyl)methyl]indole moiety. 5-Fluoro-3-[(4-piperidinyl)methyl]indole itself displayed a high affinity for the uptake site but was devoided of in vivo activity. N-Methylation of this compound abolished the affinity. In contrast N-substitution by a two-carbon chain linked to a naphthalenesulfonamide or related heterocycle led to compounds exhibiting high affinity for the uptake site. One of them, 1-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-1-piperidinyl]ethyl]-5,6-dihydro-

1H,4H-1,2,5-thiadiazolo[4,3,2-ij]quinoline 2,2-dioxide was found as active

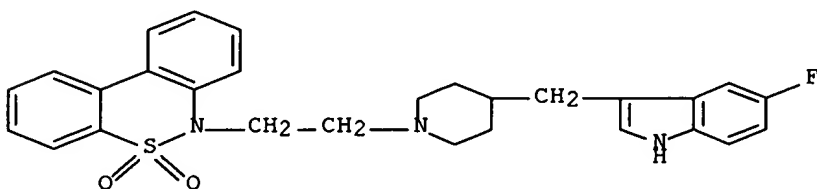
as fluoxetine in vivo.

IT 147595-42-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and serotonin antagonist activity of)

RN 147595-42-4 CAPLUS

CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-
1-piperidinyl]ethyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



IT 148132-68-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

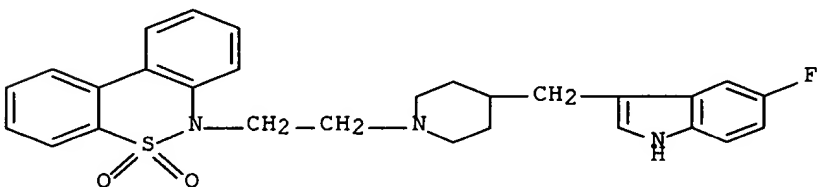
RN 148132-68-7 CAPLUS

CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-
1-piperidinyl]ethyl]-, 5,5-dioxide, ethanedioate (1:1) (9CI) (CA INDEX
NAME)

CM 1

CRN 147595-42-4

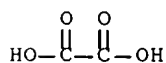
CMF C28 H28 F N3 O2 S



CM 2

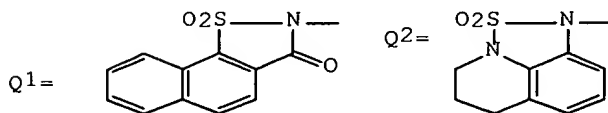
CRN 144-62-7

CMF C2 H2 O4



L9 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:583316 CAPLUS
 DN 115:183316
 TI Preparation and formulation of thiadiazolo[4,3,2-ij]quinolines and
 analogs
 as serotonin antagonists
 IN Comte, Marie Therese; Gueremy, Claude; Malleron, Jean Luc; Peyronnel,
 Jean
 Francois; Truchon, Alain
 PA Rhone-Poulenc Sante, Fr.
 SO Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 433149	A2	19910619	EP 1990-403502	19901210
	EP 433149	A3	19920318		
	EP 433149	B1	19940216		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	FR 2655652	A1	19910614	FR 1989-16459	19891213
	FR 2655652	B1	19940610		
	FR 2662696	A2	19911206	FR 1990-6943	19900605
	AT 101612	E	19940315	AT 1990-403502	19901210
	ES 2062465	T3	19941216	ES 1990-403502	19901210
	FI 9006108	A	19910614	FI 1990-6108	19901212
	NO 9005368	A	19910614	NO 1990-5368	19901212
	CA 2032104	AA	19910614	CA 1990-2032104	19901212
	AU 9067981	A1	19910620	AU 1990-67981	19901212
	AU 643241	B2	19931111		
	HU 56566	A2	19910930	HU 1990-8242	19901212
	HU 209301	B	19940428		
	ZA 9009982	A	19911030	ZA 1990-9982	19901212
	JP 03255063	A2	19911113	JP 1990-410112	19901213
	US 5130313	A	19920714	US 1990-627101	19901213
PRAI	FR 1989-16459		19891213		
	FR 1990-6943		19900605		
	EP 1990-403502		19901210		
OS	MARPAT 115:183316				
GI					



AB R2R3N(CH2)nR1 [I; R1 = (substituted) 1,2,3,6-tetrahydro-1-pyridyl,
 1-piperaziny, etc.; R2 = SO2R4; R4 = alkyl, Ph; R3 = Ph, naphthyl; or
 NR2R3 = Q1, Q2, etc.; n = 2 to 4] were prepd. I are useful as serotonin
 antagonists (no data). Treatment of 5,6-dihydro-1H,4H-1,2,5-

thiadiazolo[4,3,2-ij]quinoline 2,2-dioxide with NaH, followed by reaction with 1-(3-chloropropyl)-4-phenyl-1,2,3,6-tetrahydropyridine, gave 1-[3-(4-phenyl-1,2,3,6-tetrahydro-1-pyridyl)propyl]-5,6-dihydro-1H,4H-1,2,5-thiadiazolo[4,3,2-ij]quinoline 2,2-dioxide.

IT 134133-67-8P 136481-49-7P 136481-50-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as serotonin antagonist)

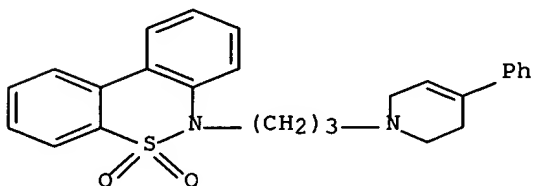
RN 134133-67-8 CAPLUS

CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[3-(3,6-dihydro-4-phenyl-1(2H)-pyridinyl)propyl]-, 5,5-dioxide, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 134133-55-4

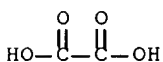
CMF C26 H26 N2 O2 S



CM 2

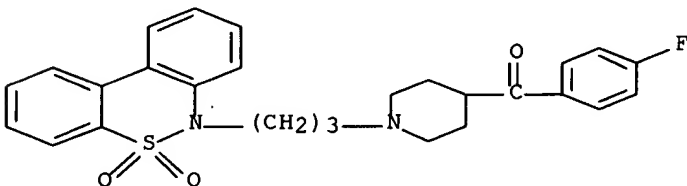
CRN 144-62-7

CMF C2 H2 O4



RN 136481-49-7 CAPLUS

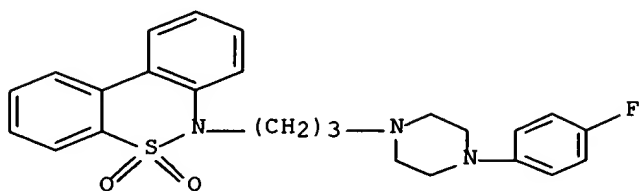
CN Methanone, [1-[3-(5,5-dioxido-6H-dibenzo[c,e][1,2]thiazin-6-yl)propyl]-4-piperidinyl](4-fluorophenyl)- (9CI) (CA INDEX NAME)



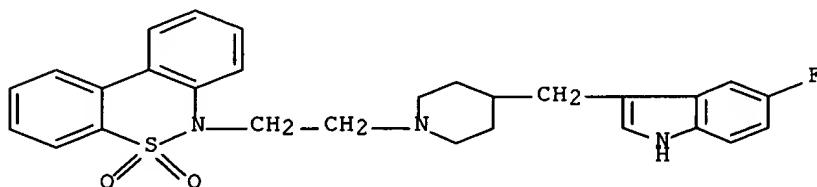
RN 136481-50-0 CAPLUS

CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[3-[4-(4-fluorophenyl)-1-

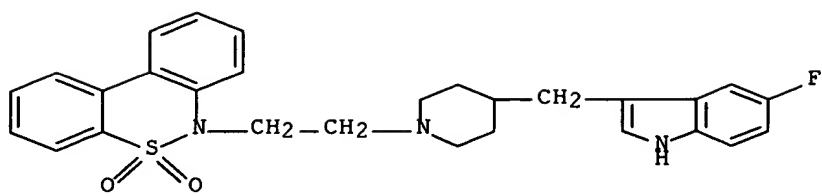
piperazinyl]propyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



L9 ANSWER 19 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1993:517168 CAPLUS
 DN 119:117168
 TI New indole derivatives as potent and selective serotonin uptake inhibitors. [Erratum to document cited in CA119(2):8726n]
 AU Malleron, Jean Luc; Gueremy, Claude; Mignani, Serge; Peyronel, Jean Francois; Truchon, Alain; Blanchard, Jean Charles; Doble, Adam; Laduron, Pierre; Piot, Odile; et al.
 CS Dep. Chim. Pharm. Biol., Cent. Recher. Vitry-Alfortville, Vitry-sur-Seine, F94403, Fr.
 SO J. Med. Chem. (1993), 36(15), 2242
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 AB The omission of an author name has been cor. The error was not reflected in the abstr. or the index entries.
 IT **147595-42-4P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and serotonin antagonist activity of (Erratum))
 RN 147595-42-4 CAPLUS
 CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-1-piperidinyl]ethyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



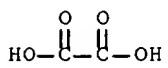
IT **148132-68-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of (Erratum))
 RN 148132-68-7 CAPLUS
 CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-1-piperidinyl]ethyl]-, 5,5-dioxide, ethanedioate (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 147595-42-4
 CMF C28 H28 F N3 O2 S



CM 2

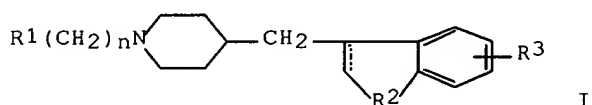
CRN 144-62-7

CMF C2 H2 O4



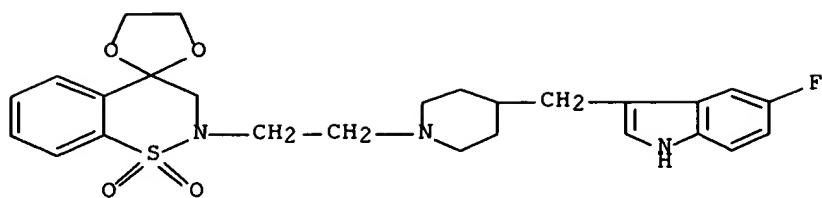
L9 ANSWER 20 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1993:472498 CAPLUS
 DN 119:72498
 TI Preparation of 1-alkyl-4-(arylmethyl)piperidines and their
 pharmaceutical
 formulations as inhibitors of 5-HT reuptake
 IN Damour, Dominique; Labaudiniere, Richard; Malleron, Jean Luc; Mignani,
 Serge
 PA Rhone-Poulenc Rorer SA, Fr.
 SO Fr. Demande, 43 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	FR 2675801	A1	19921030	FR 1991-5048	19910424
OS	MARPAT 119:72498				
GI					



AB Title piperidines I [R1 = OH, (un)substituted Ph, heterocyclyl, R4SO2NR5
 (R4 = Ph, quinolyl, R5 = H, alkyl), or N(CO2R8)NHCO2R8 (R8 = alkyl); R2
 =
 CH2, CH2CH2, NH, N-alkylimino; R3 = H, halo; R4 = Ph, quinolyl; n = 1-3;
 partial bond represents single or double C-C bond, where for R2 = NH, it
 is a double bond, and for R2 = CH2CH2, it a single bond] are prepd. by
 condensation of an appropriate alkyl halide R1(CH2)nX with
 4-(arylmethyl)piperidine. The prepn. of racemates and enantiomers of
 compds. I contg. at least one chiral center, and their salts with
 mineral
 or org. acids, are claimed. Formulations of I for medical use are given
 (3 examples). The compds. exhibit inhibitory activity of 5-HT
 recapture.

IT **148287-49-4P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and acid hydrolysis of)
 RN 148287-49-4 CAPLUS
 CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolane], 2-[2-[4-[(5-fluoro-1H-
 indol-3-yl)methyl]-1-piperidinyl]ethyl]-2,3-dihydro-, 1,1-dioxide (9CI)
 (CA INDEX NAME)

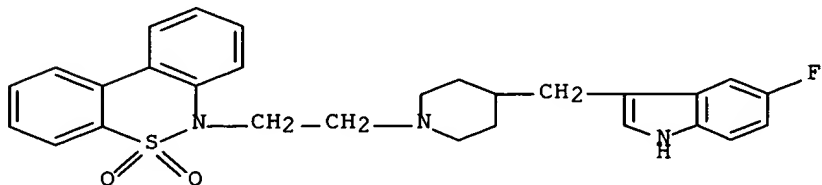


IT 147595-42-4P 148132-68-7P 148287-50-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as inhibitor of 5-HT recapture)

RN 147595-42-4 CAPLUS

CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-
1-piperidinyl]ethyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



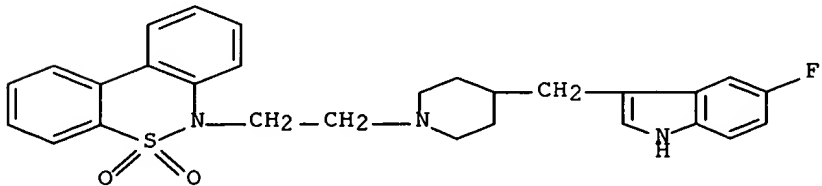
RN 148132-68-7 CAPLUS

CN 6H-Dibenzo[c,e][1,2]thiazine, 6-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-
1-piperidinyl]ethyl]-, 5,5-dioxide, ethanedioate (1:1) (9CI) (CA INDEX
NAME)

CM 1

CRN 147595-42-4

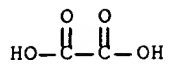
CMF C28 H28 F N3 O2 S



CM 2

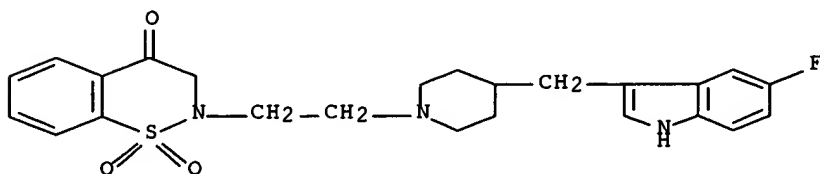
CRN 144-62-7

CMF C2 H2 O4

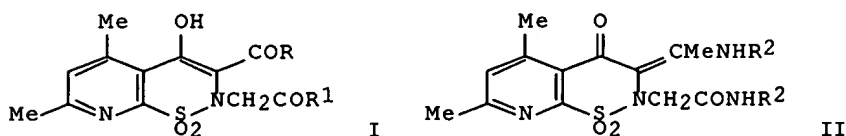


RN 148287-50-7 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-1-piperidinyl]ethyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



L9 ANSWER 16 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1994:534056 CAPLUS
 DN 121:134056
 TI Synthesis of some amides of 4-hydroxy-5,7-dimethyl-2H-pyrido[3,2-e]-1,2-thiazine-2-acetic acid 1,1-dioxide
 AU Malinka, W.; Deren, A.
 CS Dep. Chem. Drugs, Sch. Med., Wroclaw, 50-137, Pol.
 SO Pol. J. Chem. (1992), 66(12), 1953-60
 CODEN: PJCHDQ; ISSN: 0137-5083
 DT Journal
 LA English
 GI



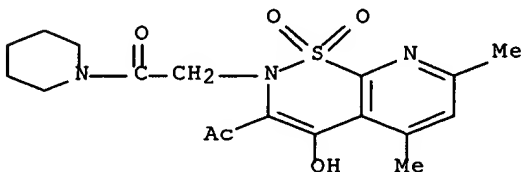
AB 3-Acetyl(benzoyl)-4-hydroxy-5,7-dimethyl-2H-pyrido[3,2-e]-1,2-thiazine-2-acetic acid 1,1-dioxides I (R = Me, Ph; R1 = OH) react on treatment with SOCl₂ and alkylamine to yield the title amides I (R = Me, Ph; R1 = cyclohexylamino, piperidino, butylamino, allylamino) with potential antiinflammatory activity. In reaction of acid I (R = Me; R1 = OH) with primary n-alkylamines amido-enamines II (R2 = Bu, allyl, Me) were obtained unexpectedly.

IT 157253-66-2P 157253-70-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

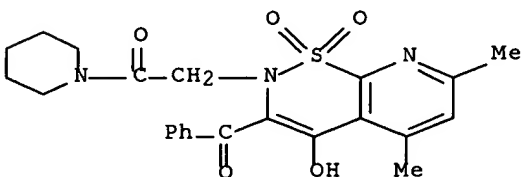
RN 157253-66-2 CAPLUS

CN Piperidine, 1-[(3-acetyl-4-hydroxy-5,7-dimethyl-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-2-yl)acetyl]- (9CI) (CA INDEX NAME)

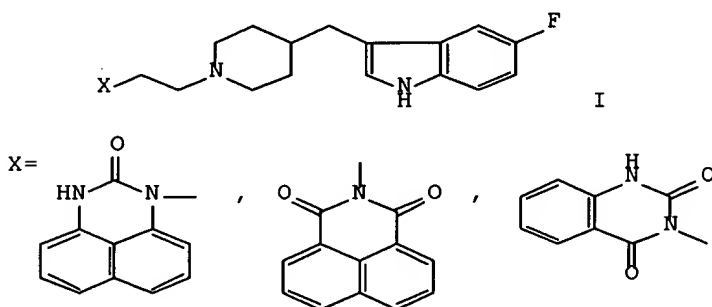


RN 157253-70-8 CAPLUS

CN Piperidine, 1-[(3-benzoyl-4-hydroxy-5,7-dimethyl-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-2-yl)acetyl]- (9CI) (CA INDEX NAME)

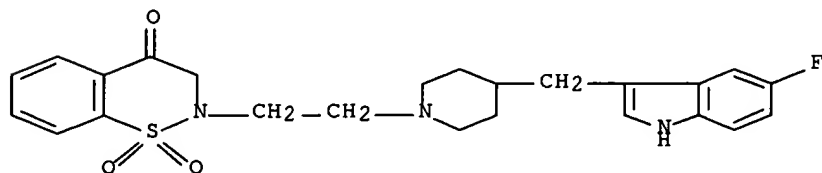


L9 ANSWER 17 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1994:435514 CAPLUS
 DN 121:35514
 TI New indole derivatives as potent and selective serotonin uptake inhibitors
 AU Mignani, Serge; Damour, Dominique; Doble, Adam; Labaudiniere, Richard; Malleron, Jean Luc; Piot, Odile; Gueremy, Claude
 CS Cent. Rech. Vitry-Alfortville, Rhone-Poulenc Rorer S.A., Vitry-sur-Seine, 94403, Fr.
 SO Bioorg. Med. Chem. Lett. (1993), 3(10), 1913-18
 CODEN: BMCLE8; ISSN: 0960-894X
 DT Journal
 LA English
 GI

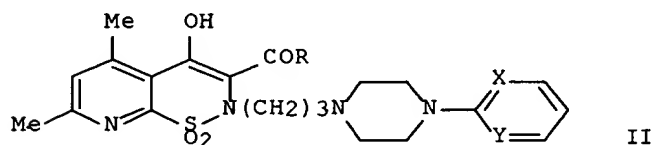
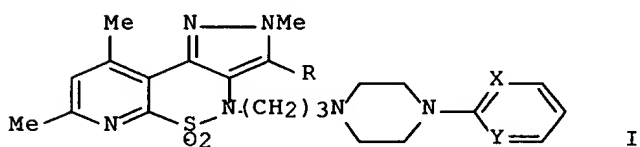


AB A new series of serotonin uptake inhibitors is described. Indole derivs., e.g. I, were prepd. and exhibit potent and selective activities in a binding assay for the 5-HT uptake site and also behave like strong in vivo serotonin uptake inhibitors.

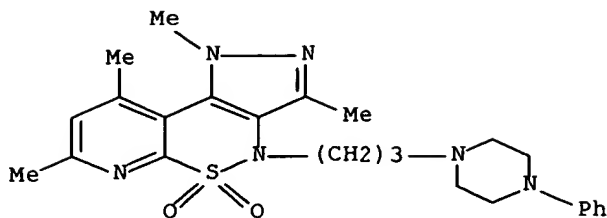
IT **148287-50-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as serotonin uptake antagonist)
 RN 148287-50-7 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-1-piperidinyl]ethyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



L9 ANSWER 15 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:418701 CAPLUS
 DN 123:55786
 TI Studies on synthesis and biological properties of pyrazolo[4,3-c]pyrido[3,2-e]-1,2-thiazine 5,5-dioxide bearing 4-substituted-1-piperazinylpropyl moiety
 AU Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Rajtar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw
 CS Dep. Drug Chem., Wroclaw Univ. Med., Wroclaw, 50-137, Pol.
 SO Farmaco (1994), 49(12), 783-92
 CODEN: FRMCE8
 DT Journal
 LA English
 GI



AB Pyrazolopyridothiazine 5,5-dioxides (I, R = Me, Ph; X = Y = CH, N; X = N, Y = CH) and pyridothiazine 1,1-dioxides (II, R = Me, Ph; X = Y = CH, N; X = N, Y = CH) bearing 1-piperazinylpropyl substituents were synthesized. The acute toxicity and preliminary results on the CNS activity of I and II are described. A structure-activity relationship is discussed.
 IT **164357-43-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 164357-43-1 CAPLUS
 CN Pyrazolo[4,3-c]pyrido[3,2-e][1,2]thiazine, 1,4-dihydro-1,3,7,9-tetramethyl-4-[3-(4-phenyl-1-piperazinyl)propyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



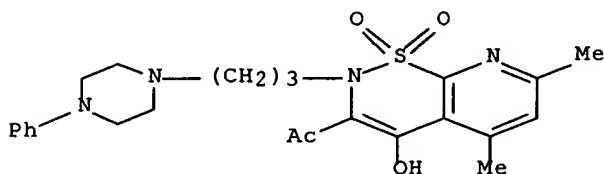
IT 164357-31-7P

RL: BAC (Biological activity or effector, except adverse); RCT
(Reactant);

SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and CNS activity of pyrazolopyridothiazine dioxides)

RN 164357-31-7 CAPLUS

CN Ethanone, 1-[4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-(4-phenyl-1-piperazinyl)propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]- (9CI) (CA INDEX NAME)



IT 164357-32-8P 164357-33-9P 164357-36-2P

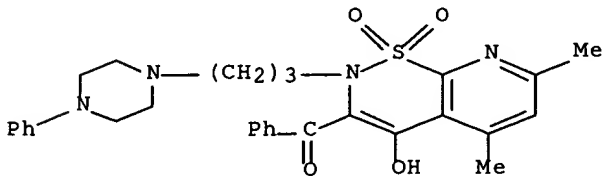
164357-37-3P 164357-38-4P

RL: BAC (Biological activity or effector, except adverse); SPN
(Synthetic

preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and CNS activity of pyrazolopyridothiazine dioxides)

RN 164357-32-8 CAPLUS

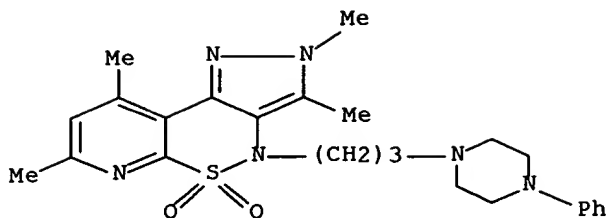
CN Methanone, [4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-(4-phenyl-1-piperazinyl)propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA INDEX NAME)



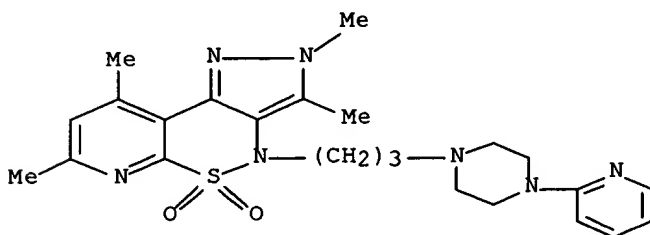
RN 164357-33-9 CAPLUS

CN Pyrazolo[4,3-c]pyrido[3,2-e][1,2]thiazine, 2,4-dihydro-2,3,7,9-tetramethyl-

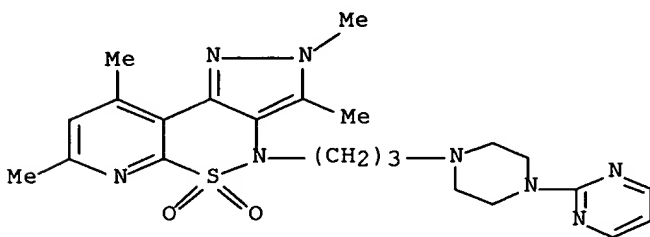
4-[3-(4-phenyl-1-piperazinyl)propyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



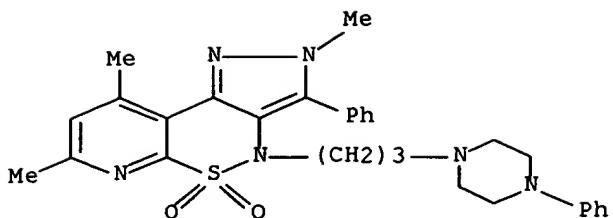
RN 164357-36-2 CAPLUS
 CN Pyrazolo[4,3-c]pyrido[3,2-e][1,2]thiazine, 2,4-dihydro-2,3,7,9-tetramethyl-4-[3-[4-(2-pyridinyl)-1-piperazinyl]propyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



RN 164357-37-3 CAPLUS
 CN Pyrazolo[4,3-c]pyrido[3,2-e][1,2]thiazine, 2,4-dihydro-2,3,7,9-tetramethyl-4-[3-[4-(2-pyrimidinyl)-1-piperazinyl]propyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)



RN 164357-38-4 CAPLUS
 CN Pyrazolo[4,3-c]pyrido[3,2-e][1,2]thiazine, 2,4-dihydro-2,7,9-trimethyl-3-phenyl-4-[3-(4-phenyl-1-piperazinyl)propyl]-, 5,5-dioxide (9CI) (CA INDEX NAME)

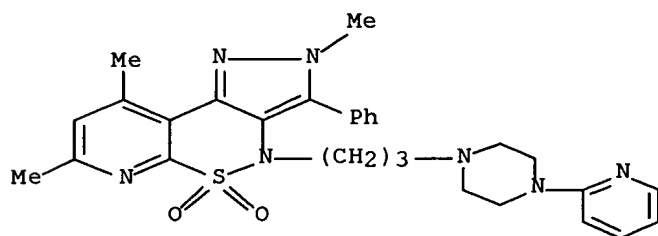


IT 164357-34-0P 164357-35-1P 164357-39-5P
164357-40-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and CNS activity of pyrazolopyridothiazine dioxides)

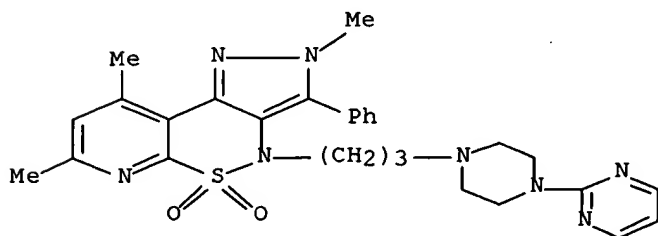
RN 164357-34-0 CAPLUS

CN Pyrazolo[4,3-c]pyrido[3,2-e][1,2]thiazine, 2,4-dihydro-2,7,9-trimethyl-3-phenyl-4-[3-[4-(2-pyridinyl)-1-piperazinyl]propyl]-, 5,5-dioxide (9CI)
(CA INDEX NAME)



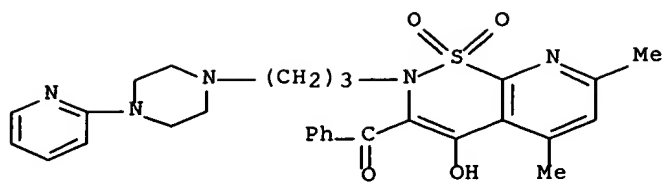
RN 164357-35-1 CAPLUS

CN Pyrazolo[4,3-c]pyrido[3,2-e][1,2]thiazine, 2,4-dihydro-2,7,9-trimethyl-3-phenyl-4-[3-[4-(2-pyrimidinyl)-1-piperazinyl]propyl]-, 5,5-dioxide (9CI)
(CA INDEX NAME)



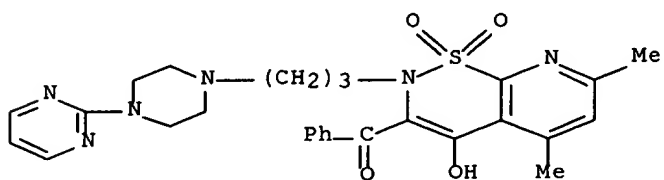
RN 164357-39-5 CAPLUS

CN Methanone, [4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-[4-(2-pyridinyl)-1-piperazinyl]propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA INDEX NAME)



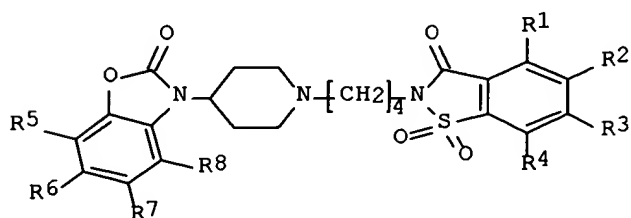
RN 164357-40-8 CAPLUS

CN Methanone, [4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-[4-(2-pyrimidinyl)-
1-
piperazinyl]propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA
INDEX NAME)

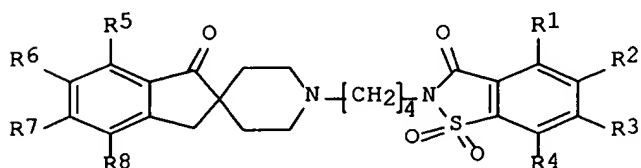


L9 ANSWER 11 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:998362 CAPLUS
 DN 124:176079
 TI Preparation of heterocycles as .alpha.1c adrenergic receptor antagonists
 IN Huff, Joel R.; Lee, Hee-Yoon; Nerenberg, Jennie B.; Thompson, Wayne J.
 PA Merck and Co., Inc., USA
 SO PCT Int. Appl., 209 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9528397	A1	19951026	WO 1995-US4590	19950413
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2187767	AA	19951026	CA 1995-2187767	19950413
	AU 9523566	A1	19951110	AU 1995-23566	19950413
	AU 688498	B2	19980312		
	EP 755392	A1	19970129	EP 1995-917565	19950413
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 09512016	T2	19971202	JP 1995-527097	19950413
	US 5760054	A	19980602	US 1996-722001	19961001
PRAI	US 1994-229276		19940414		
	WO 1995-US4590		19950413		
OS	MARPAT 124:176079				
GI					



I



II

AB Title compds. such as I (R1, R2, R3, R4 = H, NO2, NH2, etc.; R5, R6, R7, R8 = H, alkyl, alkenyl, alkoxy, etc.) and II, effective testosterone reductase inhibitors useful in treatment of benign prostatic

hyperplasia,

were prepd. Alkylation of 1-(4-piperidinyl)-3-benzoxazolin-2-one.HCl with

2-(4-bromobutyl)-1,1-dioxo-1,2-benzothiazol-3(2H)-one in the presence of (i-Pr)₂NEt in DMF afforded 40% I (R₁-R₈ = H). Title compds. are effective

at 0.001 mg/kg - 7 mg/kg per day in humans.

IT **173842-47-2P**

RL: BAC (Biological activity or effector, except adverse); SPN

(Synthetic

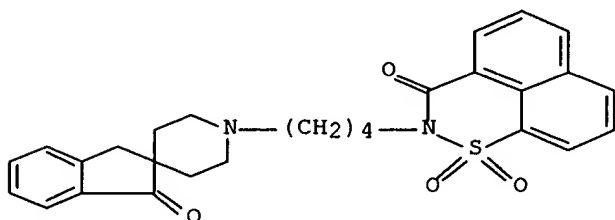
preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(prepn. of heterocycles as .alpha.1c adrenergic receptor antagonists)

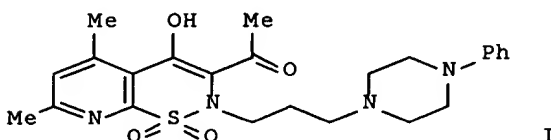
RN 173842-47-2 CAPLUS

CN Spiro[2H-indene-2,4'-piperidin]-1(3H)-one, 1'-[4-(1,1-dioxido-3-oxonaphtho[1,8-de]-1,2-thiazin-2(3H)-yl)butyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:257352 CAPLUS
 DN 126:238385
 TI Preparation of novel pyrido[3,2-e]-1,2-thiazine derivative as
 psychotropic
 agent
 IN Malinka, Wieslaw; Kleinrok, Zdzislaw; Sieklucka, Maria
 PA Akademia Medyczna, Pol.
 SO Pol., 3 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 170394	B1	19961231	PL 1993-299530	19930701
GI					



AB The title compd. I, useful as psychotropic agent, was prepd. in 56%
 yield
 by reaction of 2H-3-acetyl-4-hydroxy-5,7-dimethylpyrido[3,2-e]-1,2-
 thiazine 1,1-dioxide with 1-chloro-3-(4-phenyl-1-piperazinyl)propane in
 the presence of NaOEt in EtOH. Compd. I showed LD50 of 1753.9 mg/kg,
 and,

e.g., decreased spontaneous mobility in mice at 1/80 LD50.

IT **164357-31-7P**

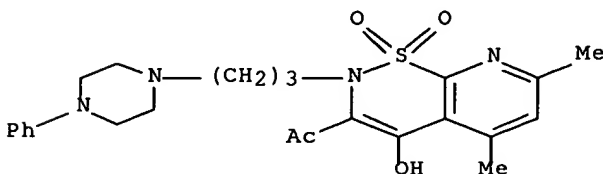
RL: BAC (Biological activity or effector, except adverse); SPN
 (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)

(prepn. of novel pyrido[3,2-e]-1,2-thiazine deriv. as psychotropic
 agent)

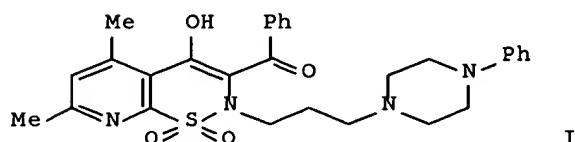
RN 164357-31-7 CAPLUS

CN Ethanone, 1-[4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-(4-phenyl-1-
 piperazinyl)propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]- (9CI) (CA INDEX
 NAME)



L9 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:257351 CAPLUS
 DN 126:238384
 TI Preparation of novel pyrido[3,2-e]-1,2-thiazine as psychotropic agent
 IN Malinka, Wieslaw; Kleinrok, Zdzislaw; Sieklucka, Maria
 PA Akademia Medyczna, Pol.
 SO Pol., 4 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 170371	B1	19961231	PL 1993-299532	19930701
GI					



AB The title compd. I, useful as psychotropic agent, was prepd. in 60%
 yield
 by reaction of 2H-3-benzoyl-4-hydroxy-5,7-dimethylpyrido[3,2-e]-1,2-
 thiazine 1,1-dioxide with 1-chloro-3-(4-phenyl-1-piperazinyl)propane in
 the presence of NaOEt in EtOH. Compd. I showed LD50 of > 2000 mg/kg,
 and,

e.g., decreased spontaneous mobility in mice and rats at 1/40 LD50.

IT **164357-32-8P**

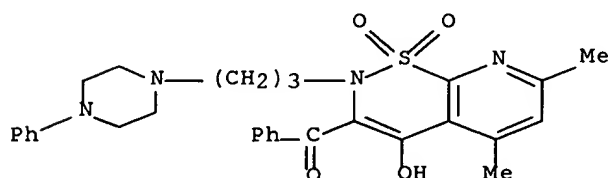
RL: BAC (Biological activity or effector, except adverse); SPN
 (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)

(prepn. of novel pyrido[3,2-e]-1,2-thiazine as psychotropic agent)

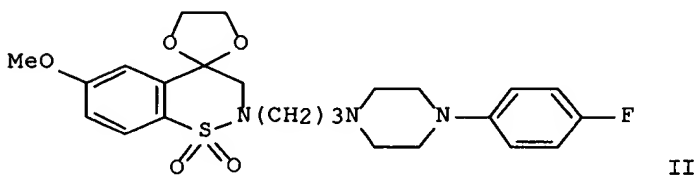
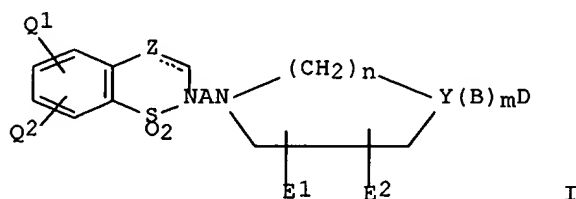
RN 164357-32-8 CAPLUS

CN Methanone, [4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-(4-phenyl-1-
 piperazinyl)propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA
 INDEX NAME)



L9 ANSWER 9 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:134766 CAPLUS
 DN 126:144283
 TI Preparation of benzothiazine derivatives as serotonin-2-receptor antagonists
 IN Mizuno, Akira; Shibata, Makoto; Iwamori, Tomoe; Inomata, Norio
 PA Suntory Limited, Japan
 SO Eur. Pat. Appl., 62 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 749967	A1	19961227	EP 1996-110050	19960621
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 09012562	A2	19970114	JP 1995-177976	19950622
	CA 2179679	AA	19961223	CA 1996-2179679	19960621
PRAI	JP 1995-177976	A	19950622		
OS	MARPAT 126:144283				
GI					



AB The title compds. [I; Z = C(O), CH₂, CH, etc.; Q₁ = H, OH, halo, etc.;
 Q₂ = OH, halo, alkyl, etc.; A = (un)substituted alkylene, alkenylene,
 alkynylene; Y = CH, C, N; m = 0, 1; n = 1-3; B = O, S, C(O), etc.; E₁,
 E₂ = H, lower alkyl; D = an arom. hydrocarbon group or an arom.
 heterocyclic
 group], having strong serotonin-2 blocking action, excellent selectivity
 to this action against .alpha.1 blocking action, high safety, and
 therefore useful as therapeutics for various circulatory diseases such
 as
 ischemic heart diseases, cerebrovascular disturbances and peripheral
 circulatory disturbances, were prepd. Thus, reaction of
 2-(3-chloropropyl)-6-methoxy-3,4-dihydro-2H-1,2-benzothiazin-4-one
 1,1-dioxide ethylene acetal with 1-(4-fluorophenyl)piperazine in the
 presence of NaHCO₃, NaI in MeCN afforded 93% II which showed 63.0% and
 62.3% (of the control) contractions of the superior mesenteric artery

and

thoracic aorta of Hartley male guinea pig, resp., at 10^{-7} M as anti-serotonin and anti- $\alpha.1$ action.

IT 186491-81-6P 186491-82-7P 186491-83-8P
186491-84-9P 186491-85-0P 186491-86-1P
186491-87-2P 186491-88-3P 186491-89-4P
186491-90-7P 186491-91-8P 186491-92-9P
186491-93-0P 186491-94-1P 186491-95-2P
186491-96-3P

RL: BAC (Biological activity or effector, except adverse); SPN

(Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

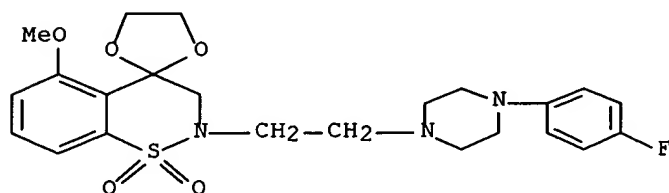
(prepn. of benzothiazine derivs. as serotonin-2-receptor antagonists)

RN 186491-81-6 CAPLUS

CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolane], 2-[2-[4-(4-fluorophenyl)-1-piperazinyl]ethyl]-2,3-dihydro-5-methoxy-, 1,1-dioxide (9CI) (CA

INDEX

NAME)

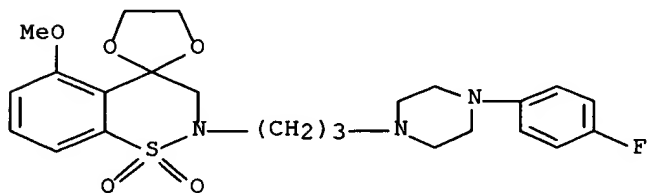


RN 186491-82-7 CAPLUS

CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolane], 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-5-methoxy-, 1,1-dioxide (9CI) (CA

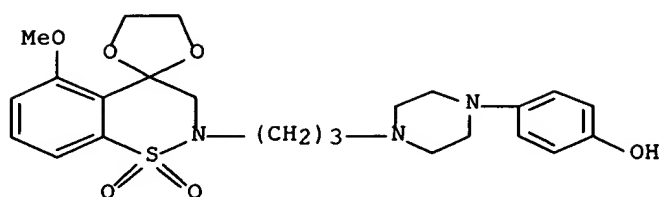
INDEX

NAME)



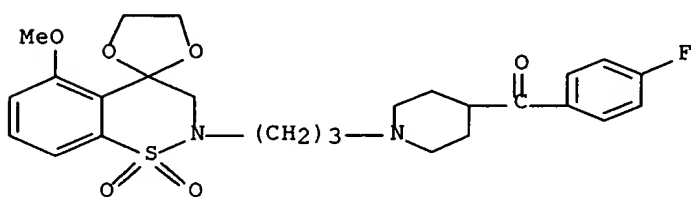
RN 186491-83-8 CAPLUS

CN Phenol, 4-[4-[3-(5-methoxy-1,1-dioxidospiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolan]-2(3H)-yl)propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



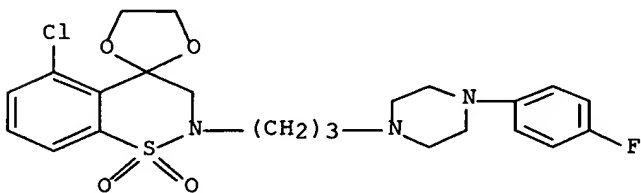
RN 186491-84-9 CAPLUS

CN Methanone, (4-fluorophenyl) [1-[3-(5-methoxy-1,1-dioxidospiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolan]-2(3H)-yl)propyl]-4-piperidinyl]- (9CI)
(CA INDEX NAME)



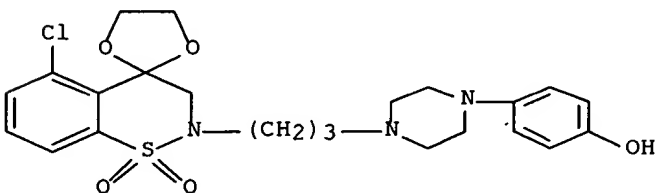
RN 186491-85-0 CAPLUS

CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolane], 5-chloro-2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 186491-86-1 CAPLUS

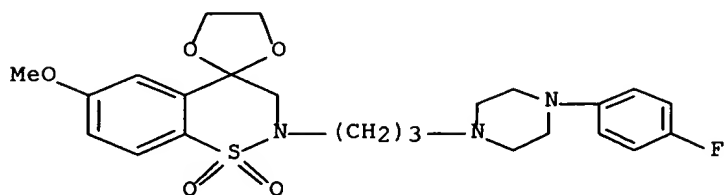
CN Phenol, 4-[4-[3-(5-chloro-1,1-dioxidospiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolan]-2(3H)-yl)propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



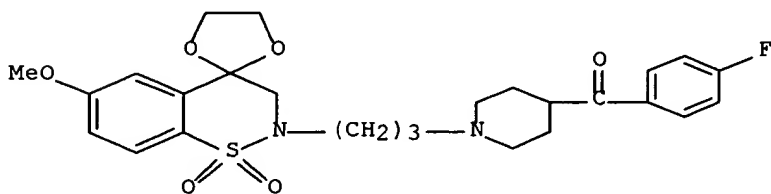
RN 186491-87-2 CAPLUS

CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolane], 2-[3-[4-(4-

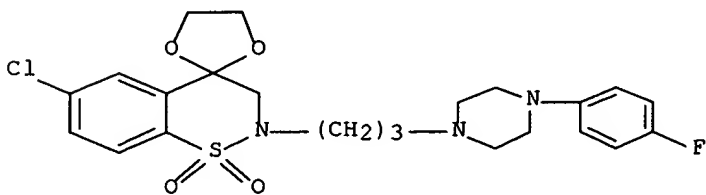
fluorophenyl)-
 1-piperazinyl]propyl]-2,3-dihydro-6-methoxy-, 1,1-dioxide (9CI) (CA
 INDEX
 NAME)



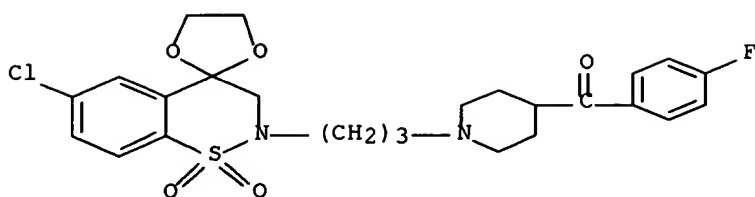
RN 186491-88-3 CAPLUS
 CN Methanone, (4-fluorophenyl) [1-[3-(6-methoxy-1,1-dioxidospiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolan]-2(3H)-yl)propyl]-4-piperidinyl]- (9CI)
 (CA INDEX NAME)



RN 186491-89-4 CAPLUS
 CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolane], 6-chloro-2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA
 INDEX NAME)



RN 186491-90-7 CAPLUS
 CN Methanone, [1-[3-(6-chloro-1,1-dioxidospiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolan]-2(3H)-yl)propyl]-4-piperidinyl] (4-fluorophenyl)- (9CI)
 (CA
 INDEX NAME)



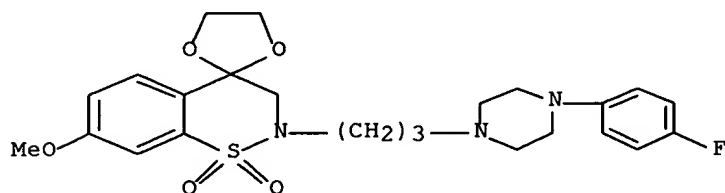
RN 186491-91-8 CAPLUS

CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolane], 2-[3-[4-(4-fluorophenyl)-

1-piperazinyl]propyl]-2,3-dihydro-7-methoxy-, 1,1-dioxide (9CI) (CA

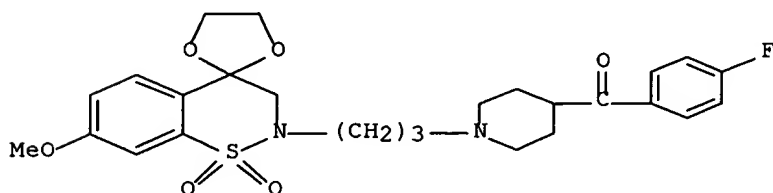
INDEX

NAME)



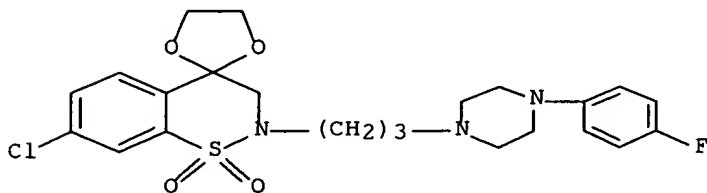
RN 186491-92-9 CAPLUS

CN Methanone, (4-fluorophenyl) [1-[3-(7-methoxy-1,1-dioxidospiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolan]-2(3H)-yl)propyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



RN 186491-93-0 CAPLUS

CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolane], 7-chloro-2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)

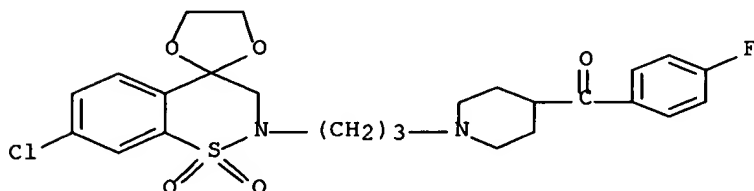


RN 186491-94-1 CAPLUS

CN Methanone, [1-[3-(7-chloro-1,1-dioxidospiro[4H-1,2-benzothiazine-4,2'-[1,3]dioxolan]-2(3H)-yl)propyl]-4-piperidiny] (4-fluorophenyl)- (9CI)

(CA

INDEX NAME)

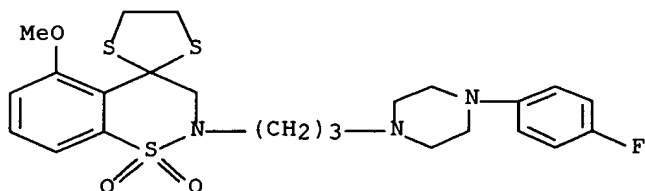


RN 186491-95-2 CAPLUS

CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dithiolane], 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-5-methoxy-, 1,1-dioxide (9CI) (CA

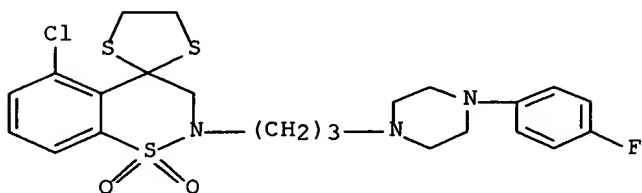
INDEX

NAME)

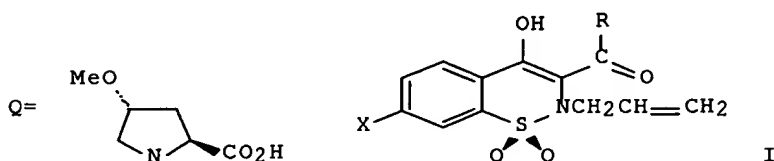


RN 186491-96-3 CAPLUS

CN Spiro[4H-1,2-benzothiazine-4,2'-[1,3]dithiolane], 5-chloro-2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA
INDEX NAME)



L9 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1998:74309 CAPLUS
 DN 128:114933
 TI Synthesis of antiinflammatory novel 3-pyrrolidinylcarbonyl-1,2-benzothiazine derivatives
 AU Park, Myung-Sook
 CS Coll. Pharm., Duksung Women's Univ., Seoul, 132-714, S. Korea
 SO Yakhak Hoechi (1997), 41(6), 724-729
 CODEN: YAHOA3; ISSN: 0513-4234
 PB Pharmaceutical Society of Korea
 DT Journal
 LA Korean
 OS CASREACT 128:114933
 GI



AB New 7-Halo-4-hydroxy-2-allyl-3-(4-methoxy-2-carboxy-1-pyrrolidinyl)carbonyl-2H-1,2-benzothiazine 1,1-dioxide derivs. (I; R =
 Q;

X = Br, Cl) were synthesized through the condensation of 7-halo-4-hydroxy-2-allyl-1,2-benzothiazine-3-carboxylic acid Me ester 1,1-dioxide I (R = OMe; X = same as above) with .gamma.-methoxy L-proline (Q-OH).

IT 201421-93-4P 201421-94-5P

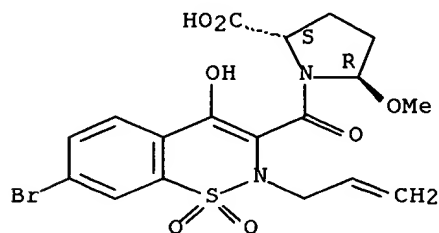
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of antiinflammatory (pyrrolidinylcarbonyl)benzothiazine derivs.

by condensation of Me halohydroxyallylbenzothiazinecarboxylate 1,1-dioxide with .gamma.-methoxy L-proline)

RN 201421-93-4 CAPLUS

CN L-Proline, 1-[[7-bromo-4-hydroxy-1,1-dioxido-2-(2-propenyl)-2H-1,2-benzothiazin-3-yl]carbonyl]-5-methoxy-, (5R)- (9CI) (CA INDEX NAME)

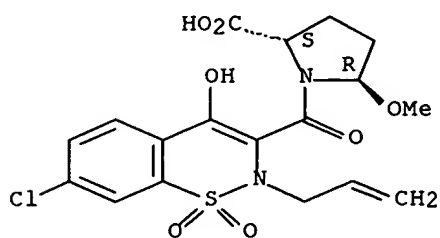
Absolute stereochemistry.



RN 201421-94-5 CAPLUS

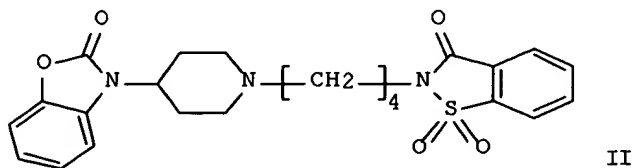
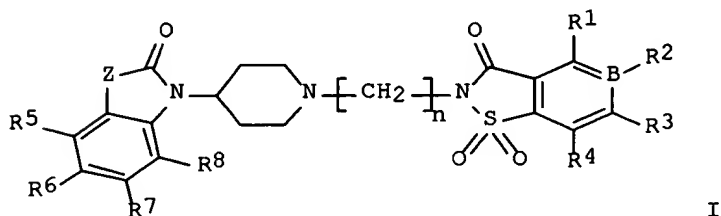
CN L-Proline, 1-[[7-chloro-4-hydroxy-1,1-dioxido-2-(2-propenyl)-2H-1,2-benzothiazin-3-yl]carbonyl]-5-methoxy-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 5 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1998:392146 CAPLUS
 DN 129:54361
 TI Preparation of benzisothiazolones and analogs as .alpha.1C-adrenergic
 receptor antagonists
 IN Huff, Joel R.; Lee, Hee-yoon; Nerenberg, Jennie B.; Thompson, Wayne J.;
 Bell, Ian M.
 PA Merck and Co., Inc., USA
 SO U.S., 57 pp. Cont.-in-part of U. S. Ser. No. 229,276, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5760054	A	19980602	US 1996-722001	19961001
	WO 9528397	A1	19951026	WO 1995-US4590	19950413
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
PRAI	US 1994-229276		19940413		
	WO 1995-US4590		19950413		
OS	MARPAT 129:54361				
GI					



AB The invention relates to the claimed title compds. I [n = 3-5; B = C or
 N;
 R1, R2, R3, R4 = H, halo, NO2, NH2, (un)substituted alkyl, alkoxy, aryl,
 heteroaryl, etc.; R5, R6, R7, R8 = H, alkyl, alkenyl, alkoxy; Z = O, S,
 CH2, NH, NMe] and analogs. Also disclosed are the synthesis and use of
 the compds. as selective .alpha.1C-adrenergic receptor antagonists. The
 primary application of the compds. is in the treatment of benign

prostatic

hypertrophy (BPH). The compds. selectively relax smooth muscle tissue enriched in the .alpha.1C receptor subtype without inducing orthostatic hypotension. The compds. provide acute relief of BPH by permitting less hindered urine flow. I and analogs are also useful in combination with human 5.alpha.-reductase inhibitors, providing both acute and chronic relief from the effects of BPH. Approx. 130 specific invention compds. are disclosed. The cloning and use of a cDNA for a human .alpha.1C adrenoceptor in an in vitro assay is described. For instance,

alkylation

of 1-(4-piperidinyl)-3-benzoxazolin-2-one.HCl (prepd. in 4 steps) with 2-(4-bromobutyl)-1,1-dioxido-1,2-benzisothiazol-3(2H)-one in the

presence

of (i-Pr)2NEt in DMF gave 40% title compd. II. Selected compds. showed nanomolar or subnanomolar affinity for human .alpha.1C receptor subtype while showing 30-fold lower affinity for human .alpha.1A and .alpha.1B subtypes (no data).

IT **173842-47-2P**

RL: BAC (Biological activity or effector, except adverse); SPN

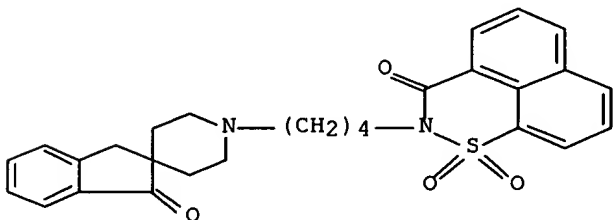
(Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of benzisothiazolones and analogs as .alpha.1C-adrenergic antagonists)

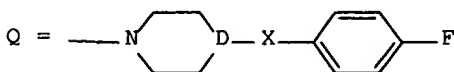
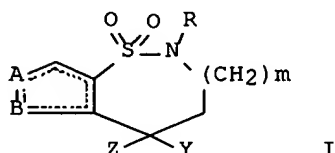
RN 173842-47-2 CAPLUS

CN Spiro[2H-indene-2,4'-piperidin]-1(3H)-one, 1'-[4-(1,1-dioxido-3-oxonaphtho[1,8-de]-1,2-thiazin-2(3H)-yl)butyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 3 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 1999:449035 CAPLUS
 DN 131:116257
 TI Preparation of pyrrole sulfonamide derivatives as serotonin-2 receptor antagonists
 IN Mizuno, Akira; Shibata, Makoto; Iwamori, Chie; Fukami, Harukazu; Inomata, Norio
 PA Suntory, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 31 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11193289	A2	19990721	JP 1997-366756	19971226
	WO 9933840	A2	19990708	WO 1998-JP5954	19981225
	WO 9933840	A3	19990910		
	W: AU, CA, CN, HU, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9916906	A1	19990719	AU 1999-16906	19981225
	EP 970088	A2	20000112	EP 1998-961598	19981225
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6271223	B1	20010807	US 1999-367841	19990826
PRAI	JP 1997-366756	A	19971226		
	WO 1998-JP5954	W	19981225		
OS	MARPAT 131:116257				
GI					



AB Title compds. [I; A = CH, NMe; B = NMe, CH; dotted bonds = single, double; m = 0, 1; D = CH, N; X = bond, CO; Y-Z = :O, :NOH; Y = H; Z = OH; R = CH2CH2CH2Q] and their salts are prepd. as serotonin 2 receptor antagonists on treatment of circulatory system disease with low side effect. Thus, the title compd. I (A = CH; B = NMe; m = 1; D = N; Y-Z = :O; X = bond; dotted bonds were single and double related to B) was prepd. and tested for anti-5-HT and anti-.alpha.1 actions in guinea pig.

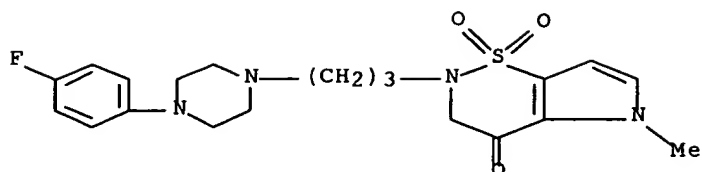
IT **232619-90-8P**

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. of pyrrolothiazinones and pyrrolothiazepinones as serotonin-2 receptor antagonists)

RN 232619-90-8 CAPLUS

CN Pyrrolo[2,3-e]-1,2-thiazin-4(5H)-one, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-5-methyl-, 1,1-dioxide (9CI) (CA INDEX

NAME)

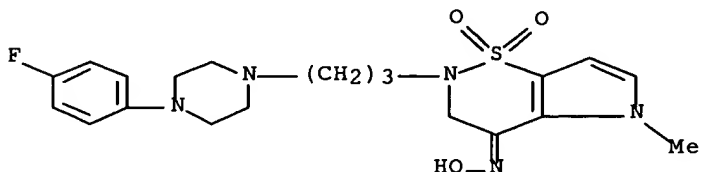


IT 232619-94-2P 232619-95-3P 232619-98-6P

RL: BAC (Biological activity or effector, except adverse); SPN
(Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of pyrrolothiazinones and pyrrolothiazepinones as serotonin-2
receptor antagonists)

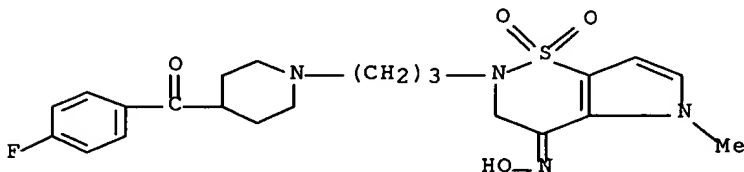
RN 232619-94-2 CAPLUS

CN Pyrrolo[2,3-e]-1,2-thiazin-4(5H)-one, 2-[3-[4-(4-fluorophenyl)-1-
piperazinyl]propyl]-2,3-dihydro-5-methyl-, oxime, 1,1-dioxide (9CI) (CA
INDEX NAME)



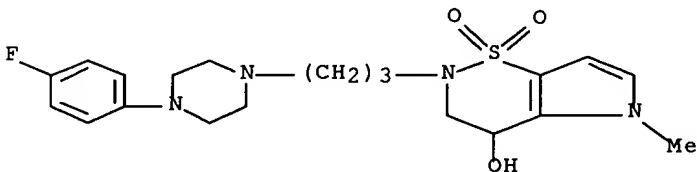
RN 232619-95-3 CAPLUS

CN Pyrrolo[2,3-e]-1,2-thiazin-4(5H)-one, 2-[3-[4-(4-fluorobenzoyl)-1-
piperidinyl]propyl]-2,3-dihydro-5-methyl-, 4-oxime, 1,1-dioxide (9CI)
(CA INDEX NAME)

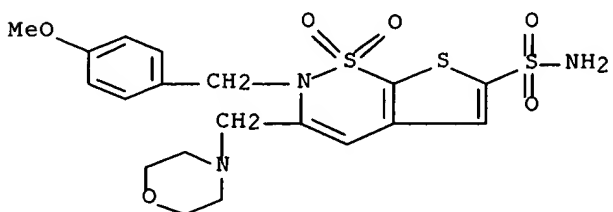


RN 232619-98-6 CAPLUS

CN Pyrrolo[2,3-e]-1,2-thiazin-4-ol, 2-[3-[4-(4-fluorophenyl)-1-
piperazinyl]propyl]-2,3,4,5-tetrahydro-5-methyl-, 1,1-dioxide (9CI) (CA
INDEX NAME)



L9 ANSWER 2 OF 49 CAPLUS COPYRIGHT 2002 ACS
 AN 2000:395926 CAPLUS
 DN 133:129514
 TI 2H-Thieno[3,2-e]- and [2,3-e]-1,2-thiazine-6-sulfonamide 1,1-dioxides as ocular hypotensive agents: synthesis, carbonic anhydrase inhibition and evaluation in the rabbit
 AU Chen, H.-H.; Gross, S.; Liao, J.; McLaughlin, M.; Dean, T.; Sly, W. S.; May, J. A.
 CS Ophthalmic Products Research, Alcon Research, Ltd., Fort Worth, TX, 76134, USA
 SO Bioorganic & Medicinal Chemistry (2000), 8(5), 957-975
 CODEN: BMECEP; ISSN: 0968-0896
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 AB Novel non-chiral 2H-thieno[3,2-e]- and [2,3-e]-1,2-thiazine-6-sulfonamide 1,1-dioxides were synthesized for evaluation as potential candidates for the treatment of glaucoma. All of the compds. prepd. were potent high affinity inhibitors of human carbonic anhydrase II, $K_i < 0.5$ nM. Addnl., inhibition of recombinant human carbonic anhydrase IV was detd. for selected compds.; these were shown to be moderate to potent inhibitors of this isoenzyme with IC50 values ranging from 4.25 to 73.6 nM. Of the compds. evaluated for their ability to lower intraocular pressure in naturally hypertensive Dutch-belted rabbits, several showed significant efficacy (>20% decrease) in this model following topical ocular administration.
 IT **171272-89-2P**
 RL: BAC (Biological activity or effector, except adverse); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (thieno and thiazine sulfonamide dioxides as ocular hypotensive agents: synthesis and carbonic anhydrase inhibition)
 RN 171272-89-2 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[(4-methoxyphenyl)methyl]-3-[(4-morpholinylmethyl)-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IT 171272-69-8P 171272-71-2P 171272-77-8P
 171272-78-9P 171272-80-3P 171272-82-5P
 171272-83-6P 171272-84-7P 171272-87-0P
 171272-91-6P 171273-12-4P 171273-18-0P
 171273-96-4P 286958-28-9P 286958-30-3P
 286958-32-5P 286958-33-6P 286958-34-7P
 286958-35-8P

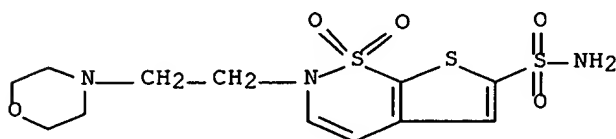
RL: BAC (Biological activity or effector, except adverse); PRP
 (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (thieno and thiazine sulfonamide dioxides as ocular hypotensive

agents:

synthesis and carbonic anhydrase inhibition)

RN 171272-69-8 CAPLUS

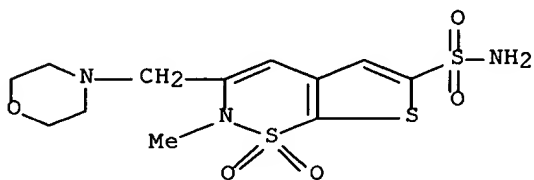
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[2-(4-morpholinyl)ethyl]-
 ,
 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 171272-71-2 CAPLUS

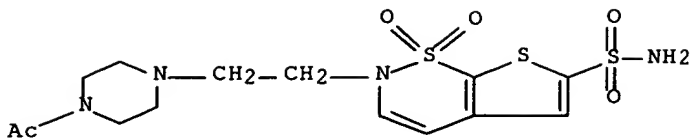
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-methyl-3-(4-morpholinylmethyl)-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

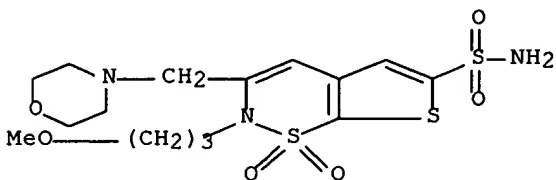
RN 171272-77-8 CAPLUS

CN Piperazine, 1-acetyl-4-[2-[6-(aminosulfonyl)-1,1-dioxido-2H-thieno[3,2-e]-
 1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)



RN 171272-78-9 CAPLUS

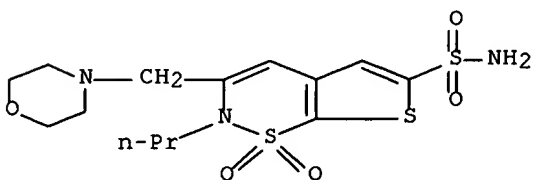
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(3-methoxypropyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 171272-80-3 CAPLUS

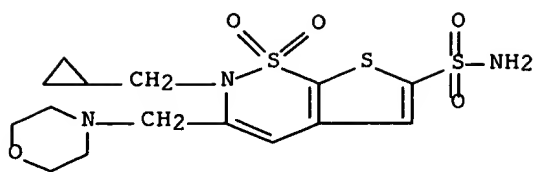
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-(4-morpholinylmethyl)-2-propyl-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

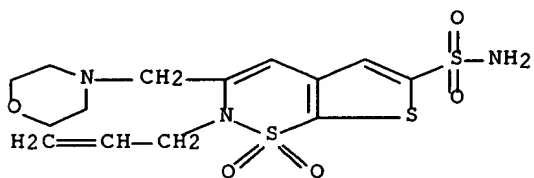
RN 171272-82-5 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(cyclopropylmethyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)

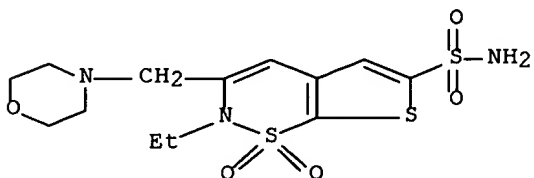


● HCl

RN 171272-83-6 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-(4-morpholinylmethyl)-2-(2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)

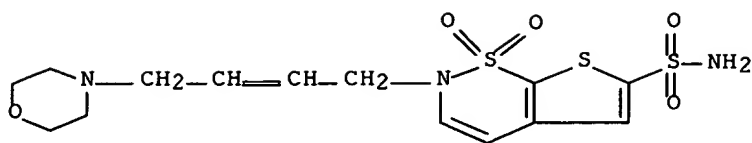


RN 171272-84-7 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-ethyl-3-(4-morpholinylmethyl)-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

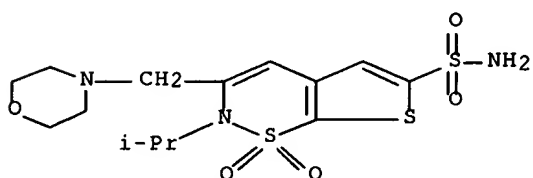
RN 171272-87-0 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

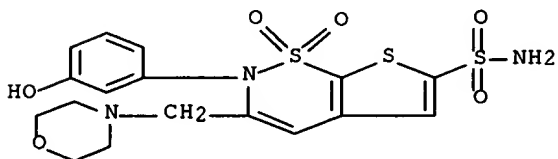
RN 171272-91-6 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(1-methylethyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



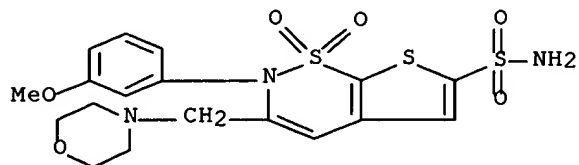
RN 171273-12-4 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(3-hydroxyphenyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 171273-18-0 CAPLUS

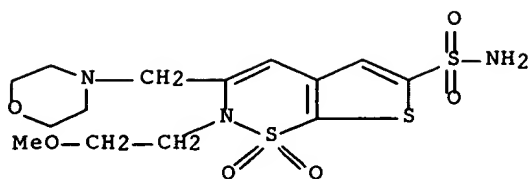
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(3-methoxyphenyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

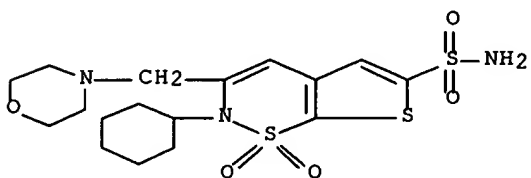
RN 171273-96-4 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(2-methoxyethyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



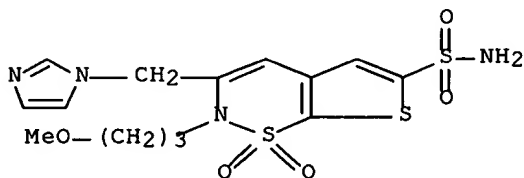
RN 286958-28-9 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-cyclohexyl-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 286958-30-3 CAPLUS

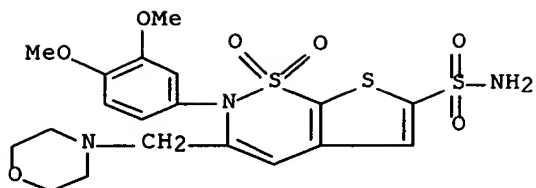
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-(1H-imidazol-1-ylmethyl)-2-(3-methoxypropyl)-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

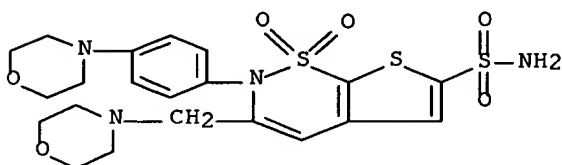
RN 286958-32-5 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(3,4-dimethoxyphenyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



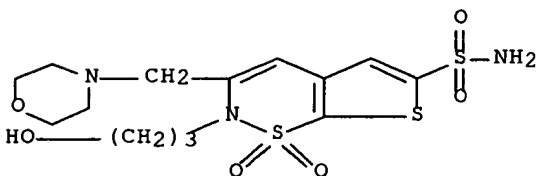
● HCl

RN 286958-33-6 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-(4-morpholinylmethyl)-2-[4-(4-morpholinyl)phenyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)

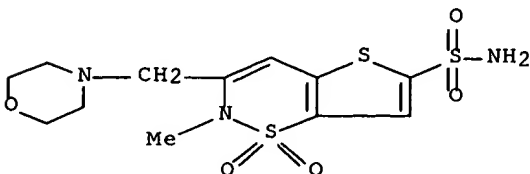


● HCl

RN 286958-34-7 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(3-hydroxypropyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 286958-35-8 CAPLUS
 CN 2H-Thieno[2,3-e]-1,2-thiazine-6-sulfonamide, 2-methyl-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



IT 171273-55-5P 171273-60-2P 171273-66-8P
 171273-67-9P 286958-36-9P 286958-84-7P
 286958-88-1P

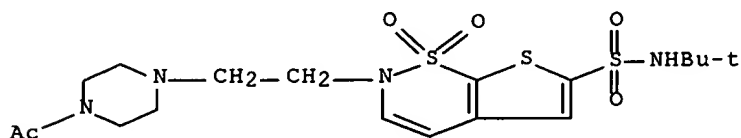
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (thieno and thiazine sulfonamide dioxides as ocular hypotensive

agents:

synthesis and carbonic anhydrase inhibition)

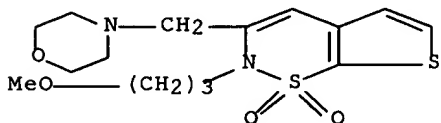
RN 171273-55-5 CAPLUS

CN Piperazine, 1-acetyl-4-[2-[6-[[(1,1-dimethylethyl)amino]sulfonyl]-1,1-dioxido-2H-thieno[3,2-e]-1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)



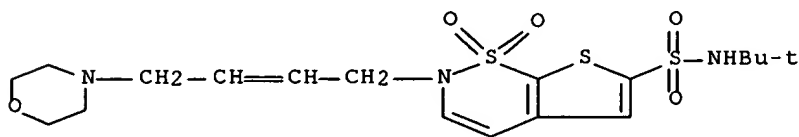
RN 171273-60-2 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine, 2-(3-methoxypropyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



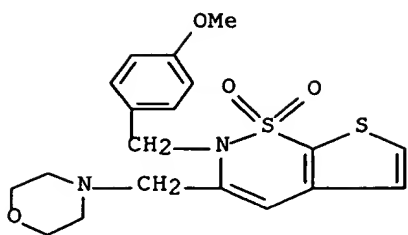
RN 171273-66-8 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



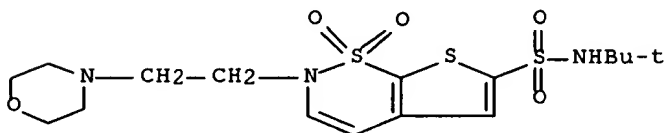
RN 171273-67-9 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine, 2-[(4-methoxyphenyl)methyl]-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



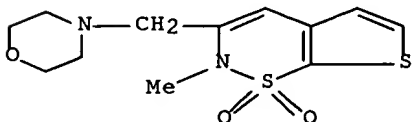
RN 286958-36-9 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



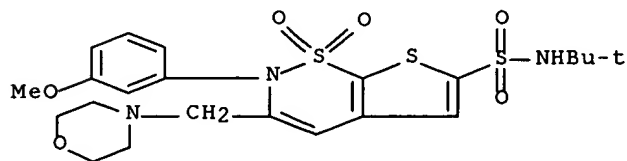
RN 286958-84-7 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine, 2-methyl-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 286958-88-1 CAPLUS

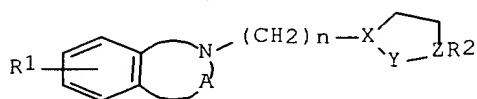
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-2-(3-methoxyphenyl)-3-(4-morpholinylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:31419 CAPLUS
 DN 136:85830
 TI Preparation of bicyclic lactams and sulfonamides as 5-HT1A agonists
 IN Steiner, Gerd; Schellhaas, Kurt; Szabo, Laszlo; Behl, Berthold;
 Garcia-Ladona, Francisco Javier; Unger, Liliane
 PA Knoll GmbH, Germany
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002002529	A1	20020110	WO 2001-EP7571	20010702
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 10031391	A1	20020207	DE 2000-10031391	20000703
PRAI	DE 2000-10031391	A	20000703		
OS	MARPAT 136:85830				
GI					

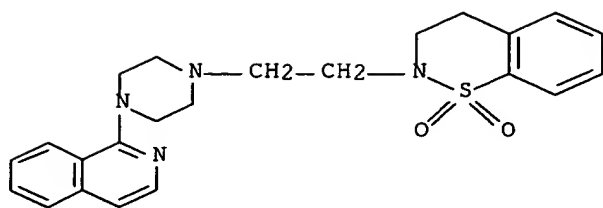


AB Title compds. [I; the ring including NA can be a 5-7 membered ring
 contg. O, S, or double bond; A = CO, SO2; X = N; Y = CH2, CH2CH2,
 (CH2)3, CH2CH; Z = N, C, CH; n = 2-4; R1 = H, halo, alkyl, CF3, OH,
 alkoxy, amino; R2 = (substituted) (anellated) Ph, pyridyl, pyrazinyl]
 and salts thereof, were prepd. Thus, isoquinoline in DMF was stirred
 with NaH for 30 min. followed by addn. of 1-[4-(2-chloroethyl)-1-
 piperazinyl]isoquinoline (prepn. given) and stirring for 2 h at
 80.degree. to give 82% 2-[2-(4-(1-isoquinolinyl)-1-piperazinyl)ethyl]-
 1(2H)-isoquinoline.2HCl.2H2O. Tested I showed affinity for the 5-HT1A
 receptor with Ki = 0.1-5.4 nM in HEK 293 cells.

IT **387399-39-5P**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses) (prepn. of bicyclic lactams and sulfonamides as 5-HT1A agonists)

RN 387399-39-5 CAPLUS

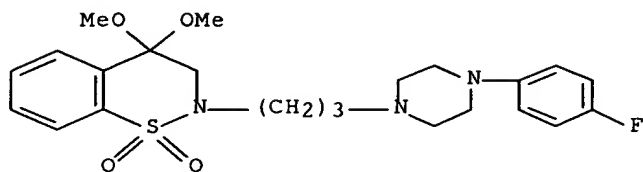
CN 2H-1,2-Benzothiazine, 3,4-dihydro-2-[2-[4-(1-isoquinolinyl)-1-
 piperazinyl]ethyl]-, 1,1-dioxide, dihydrochloride (9CI) (CA INDEX NAME)



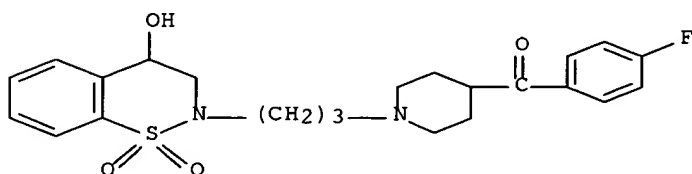
●2 HCl

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

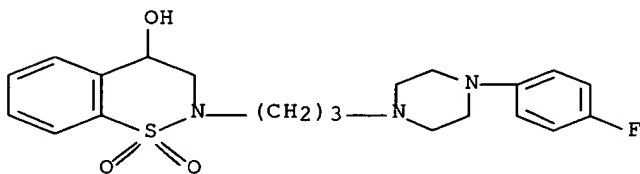
3,4-
dihydro-4,4-dimethoxy-, 1,1-dioxide (9CI) (CA INDEX NAME)



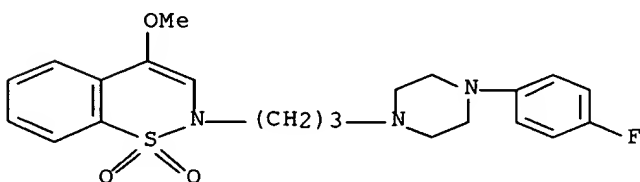
RN 170631-74-0 CAPLUS
CN Methanone, [1-[3-(3,4-dihydro-4-hydroxy-1,1-dioxido-2H-1,2-benzothiazin-2-yl)propyl]-4-piperidinyl](4-fluorophenyl)- (9CI) (CA INDEX NAME)



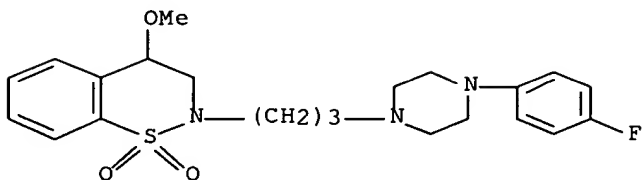
RN 170631-75-1 CAPLUS
CN 2H-1,2-Benzothiazin-4-ol, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 220716-37-0 CAPLUS
CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-4-methoxy-, 1,1-dioxide, dihydrochloride (9CI) (CA INDEX NAME)

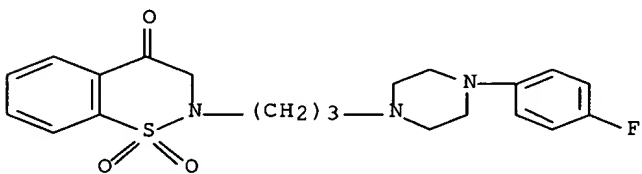


RN 220716-38-1 CAPLUS
 CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-
 3,4-
 dihydro-4-methoxy-, 1,1-dioxide, dihydrochloride (9CI) (CA INDEX NAME)

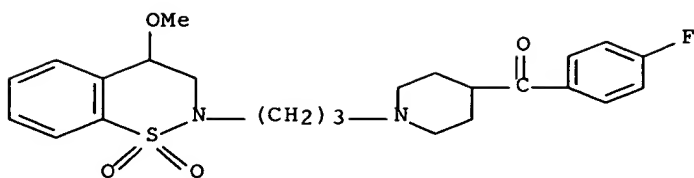


●2 HCl

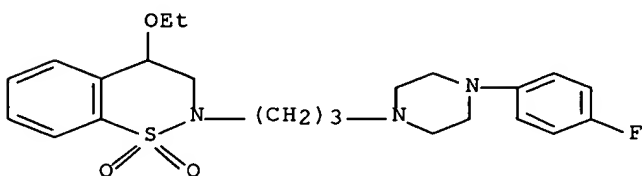
IT 170631-68-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT
 (Reactant or reagent)
 (benzothiazine derivs. as serotonin-2 blockers)
 RN 170631-68-2 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(4-fluorophenyl)-1-
 piperazinyl]propyl]-
 2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



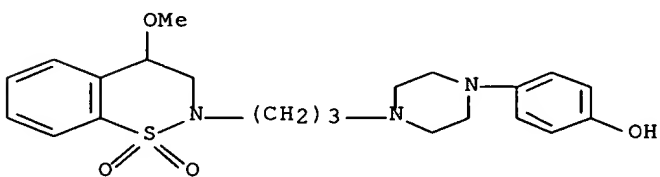
IT 170631-56-8P 170631-57-9P 170631-58-0P
 170631-69-3P 170631-70-6P 170631-71-7P
 170631-72-8P 170631-73-9P 170631-76-2P
 170631-77-3P 220716-39-2P 220716-42-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (benzothiazine derivs. as serotonin-2 blockers)
 RN 170631-56-8 CAPLUS
 CN Methanone, [1-[3-(3,4-dihydro-4-methoxy-1,1-dioxido-2H-1,2-benzothiazin-
 2-
 yl)propyl]-4-piperidinyl](4-fluorophenyl)- (9CI) (CA INDEX NAME)



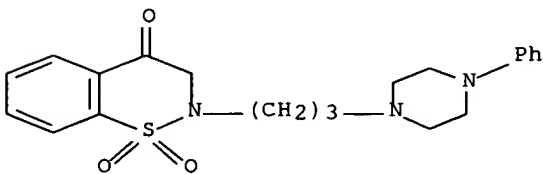
RN 170631-57-9 CAPLUS
 CN 2H-1,2-Benzothiazine, 4-ethoxy-2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



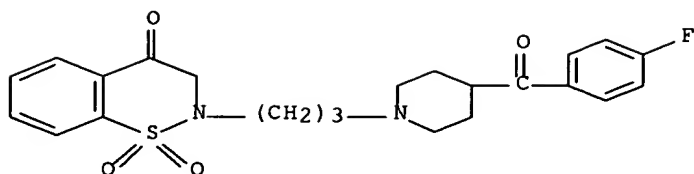
RN 170631-58-0 CAPLUS
 CN Phenol, 4-[4-[3-(3,4-dihydro-4-methoxy-1,1-dioxido-2H-1,2-benzothiazin-2-yl)propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 170631-69-3 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-phenyl-1-piperazinyl)propyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

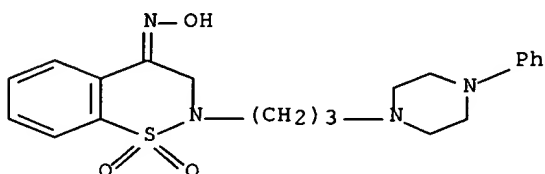


RN 170631-70-6 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(4-fluorobenzoyl)-1-piperidinyl]propyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



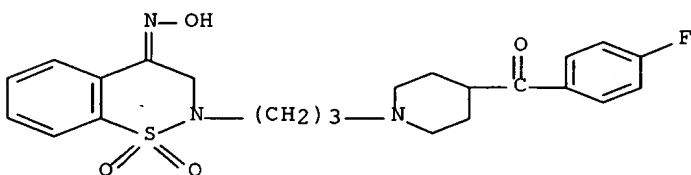
RN 170631-71-7 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-phenyl-1-piperazinyl)propyl]-, oxime, 1,1-dioxide (9CI) (CA INDEX NAME)



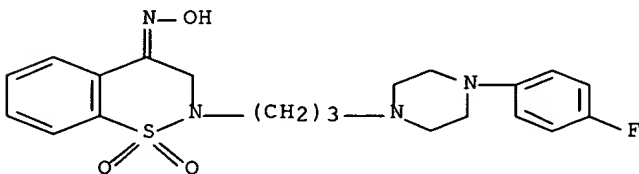
RN 170631-72-8 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(4-fluorobenzoyl)-1-piperidinyl]propyl]-
2,3-dihydro-, 4-oxime, 1,1-dioxide (9CI) (CA INDEX NAME)



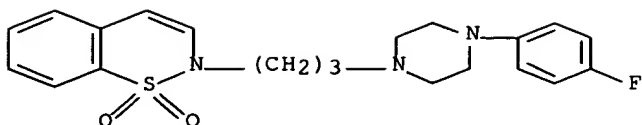
RN 170631-73-9 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-
2,3-dihydro-, oxime, 1,1-dioxide (9CI) (CA INDEX NAME)



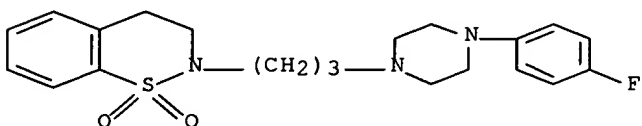
RN 170631-76-2 CAPLUS

CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-,
1,1-dioxide (9CI) (CA INDEX NAME)



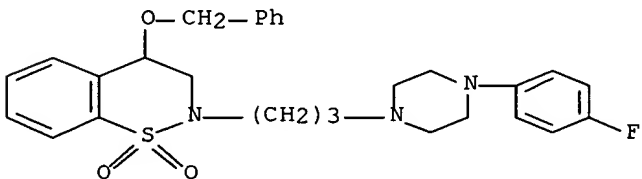
RN 170631-77-3 CAPLUS

CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 220716-39-2 CAPLUS

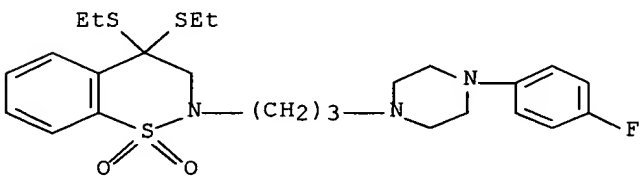
CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-4-(phenylmethoxy)-, 1,1-dioxide, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 220716-42-7 CAPLUS

CN 2H-1,2-Benzothiazine, 4,4-bis(ethylthio)-2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-, 1,1-dioxide, dihydrochloride (9CI) (CA INDEX NAME)

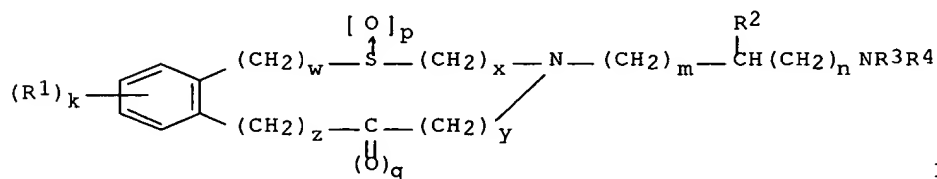


●2 HCl

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:996307 CAPLUS
 DN 124:146182
 TI Preparation of benzothiazine derivatives for inhibiting dysuria
 IN Masaki, Mitsuo; Miyake, Norihisa; Tendo, Atsushi; Ishida, Michiko;
 Shinozaki, Atsuhiko; Nomura, Yutaka; Goto, Yasunori
 PA Nippon Chemiphar Co., Ltd., Japan
 SO PCT Int. Appl., 108 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9526959	A1	19951012	WO 1995-JP632	19950331
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ, VN				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	JP 07278125	A2	19951024	JP 1994-85831	19940331
	AU 9520849	A1	19951023	AU 1995-20849	19950331
	JP 08003152	A2	19960109	JP 1995-100505	19950331
	EP 753514	A1	19970115	EP 1995-913402	19950331
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	CN 1148853	A	19970430	CN 1995-193184	19950331
	US 5773437	A	19980630	US 1996-722112	19960930
	AU 9897203	A1	19990304	AU 1998-97203	19981218
PRAI	JP 1994-85831		19940331		
	JP 1994-103345		19940418		
	AU 1995-20849		19950331		
	WO 1995-JP632		19950331		
OS	MARPAT 124:146182				
GI					



AB The title compds. I [R1 represents hydrogen, alkyl, halogen, haloalkyl, hydroxy, alkoxy, nitro, amino, cyano, etc.; R2 represents hydrogen, alkyl, aryl, etc.; R3 and R4 represent each alkyl, etc., or R3 and R4 are combined together to form an optionally substituted heterocyclic group;
 k represents an integer of 1 to 4; m and n represent each an integer of 0 to

4; p+q = 0 to 4, wherein p is 0, 1 or 2 and q is 0 or 1; and w, x, y and z represent each an integer of 0 to 2, and w+x+y+z = 1 or 2, provided when R1 to R4 represent each a specifically limited group, w+x+y+z may be 0] are prepd. 2-[3-(4-Phenoxypiperidino)propyl]-2H-1,2-benzothiazin-4(3H)-one 1,1-dioxide hydrochloride (II) was prepd. in several steps starting from 2H-1,2-benzothiazin-4(3H)-one 1,1-dioxide ethylene ketal. II at 1 mg/kg i. v. inhibited urinary bladder contractions in rats.

IT 173365-19-0P 173365-20-3P 173365-21-4P
 173365-24-7P 173365-25-8P 173365-32-7P
 173365-33-8P 173365-36-1P 173365-38-3P
 173365-39-4P 173365-40-7P 173365-41-8P
 173365-43-0P 173365-45-2P 173365-46-3P
 173365-47-4P 173365-48-5P 173365-49-6P
 173365-50-9P 173365-67-8P 173365-68-9P
 173365-69-0P 173365-70-3P 173365-71-4P
 173365-72-5P 173365-73-6P

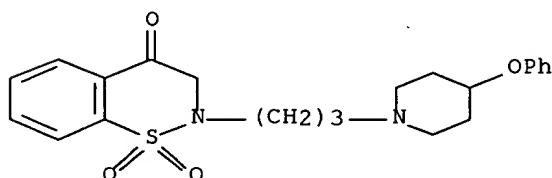
RL: BAC (Biological activity or effector, except adverse); SPN

(Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of benzothiazine derivs. for inhibiting dysuria)

RN 173365-19-0 CAPLUS

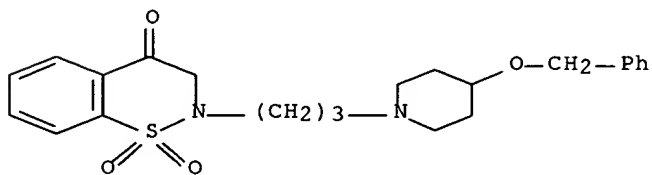
CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-phenoxy-1-piperidiny]propyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

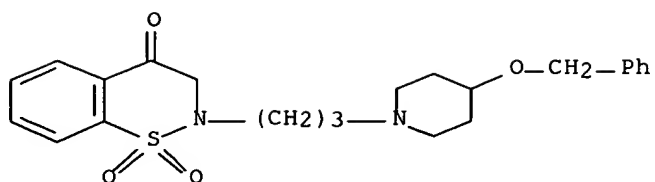
RN 173365-20-3 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-[4-(phenylmethoxy)-1-piperidiny]propyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



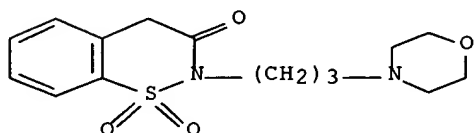
RN 173365-21-4 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-[4-(phenylmethoxy)-1-piperidiny]propyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

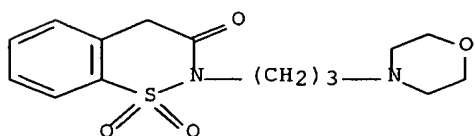
RN 173365-24-7 CAPLUS
 CN 2H-1,2-Benzothiazin-3(4H)-one, 2-[3-(4-morpholinyl)propyl]-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



RN 173365-25-8 CAPLUS
 CN 2H-1,2-Benzothiazin-3(4H)-one, 2-[3-(4-morpholinyl)propyl]-, 1,1-dioxide,
 (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

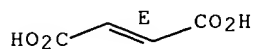
CRN 173365-24-7
 CMF C15 H20 N2 O4 S



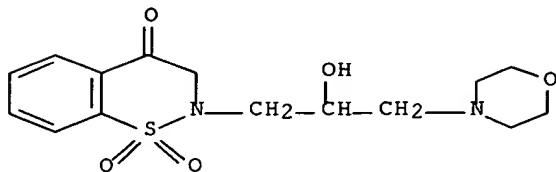
CM 2

CRN 110-17-8
 CMF C4 H4 O4
 CDES 2:E

Double bond geometry as shown.



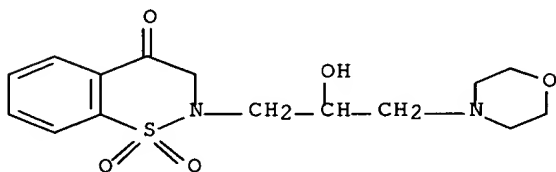
RN 173365-32-7 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[2-hydroxy-3-(4-morpholinyl)propyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 173365-33-8 CAPLUS
 CN 2H-1,2-Benzothiazin-3(4H)-one, 2-[2-hydroxy-3-(4-morpholinyl)propyl]-, 1,1-dioxide, (2E)-2-butenedioate (2:1) (salt) (9CI) (CA INDEX NAME)

CM 1

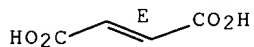
CRN 173365-32-7
 CMF C15 H20 N2 O5 S



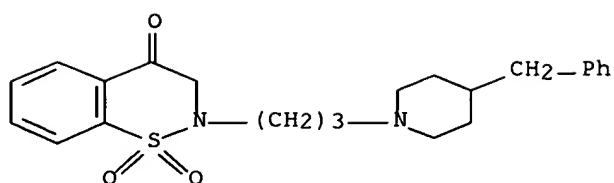
CM 2

CRN 110-17-8
 CMF C4 H4 O4
 CDES 2:E

Double bond geometry as shown.

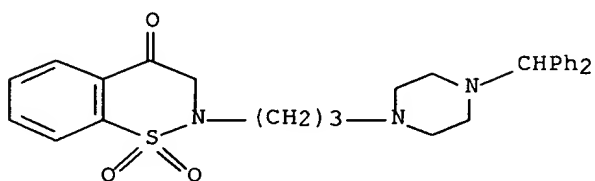


RN 173365-36-1 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-[4-(phenylmethyl)-1-piperidinyl]propyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



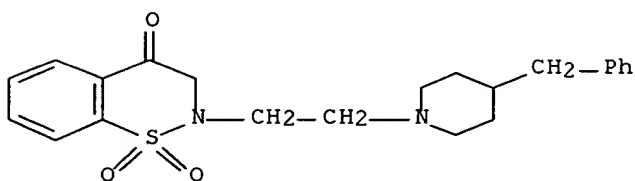
● HCl

RN 173365-38-3 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(diphenylmethyl)-1-piperazinyl]propyl]-
 2,3-dihydro-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



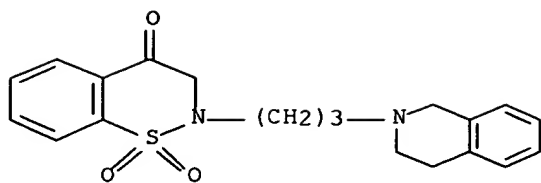
● HCl

RN 173365-39-4 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[2-[4-(phenylmethyl)-1-piperidiny]ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



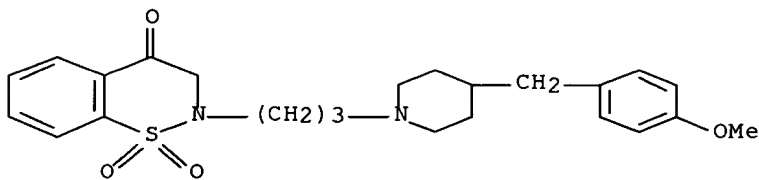
● HCl

RN 173365-40-7 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2-[3-(3,4-dihydro-2(1H)-isoquinolinyl)propyl]-
 2,3-dihydro-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 173365-41-8 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-[4-[(4-methoxyphenyl)methyl]-1-piperidinyl]propyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)

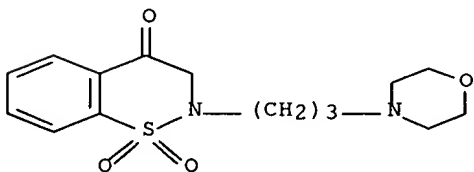


● HCl

RN 173365-43-0 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-morpholinyl)propyl]-, 1,1-dioxide, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

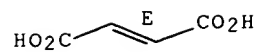
CRN 173365-42-9
 CMF C15 H20 N2 O4 S



CM 2 .

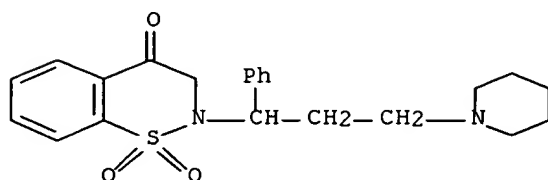
CRN 110-17-8
 CMF C4 H4 O4
 CDES 2:E

Double bond geometry as shown.



RN 173365-45-2 CAPLUS

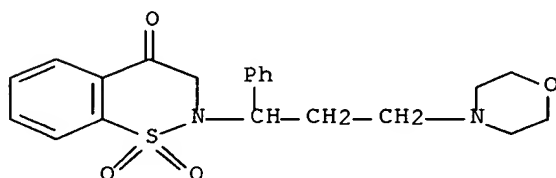
CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[1-phenyl-3-(1-piperidinyl)propyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 173365-46-3 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-morpholinyl)-1-phenylpropyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)

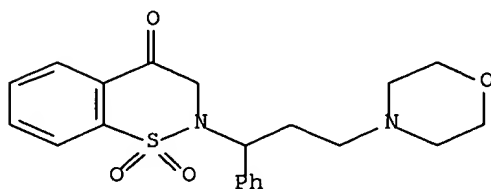


● HCl

RN 173365-47-4 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-morpholinyl)-1-phenylpropyl]-, 1,1-dioxide, monohydrochloride, (-)- (9CI) (CA INDEX NAME)

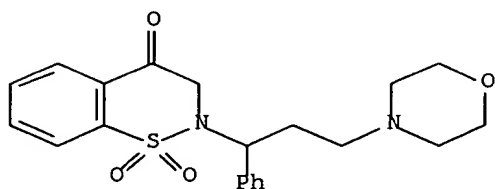
Rotation (-).



● HCl

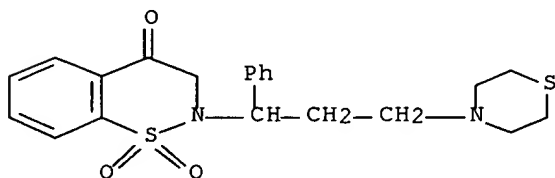
RN 173365-48-5 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-morpholinyl)-1-phenylpropyl]-, 1,1-dioxide, monohydrochloride, (+)- (9CI) (CA INDEX NAME)

Rotation (+).



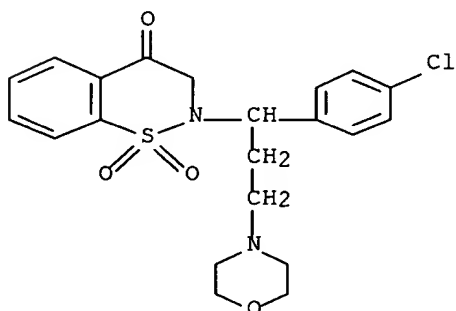
● HCl

RN 173365-49-6 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[1-phenyl-3-(4-thiomorpholinyl)propyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



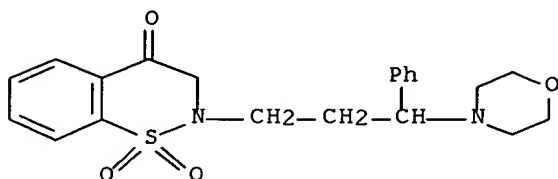
● HCl

RN 173365-50-9 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2-[1-(4-chlorophenyl)-3-(4-morpholinyl)propyl]-, 2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 173365-67-8 CAPLUS

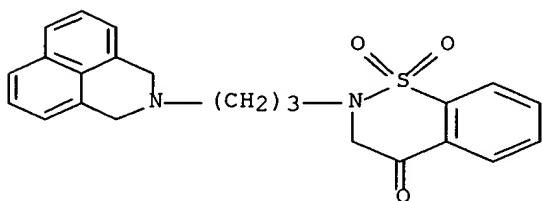
CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-morpholinyl)-3-phenylpropyl]-, 1,1-dioxide, monohydrochloride (9CI). (CA INDEX NAME)



● HCl

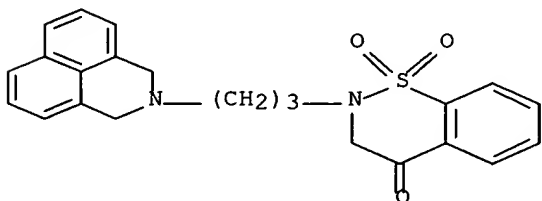
RN 173365-68-9 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[3-(1H-benz[de]isoquinolin-2(3H)-yl)propyl]-, 2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 173365-69-0 CAPLUS

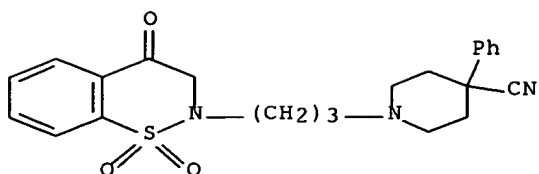
CN 4H-1,2-Benzothiazin-4-one, 2-[3-(1H-benz[de]isoquinolin-2(3H)-yl)propyl]-, 2,3-dihydro-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 173365-70-3 CAPLUS

CN 4-Piperidinecarbonitrile, 1-[3-(3,4-dihydro-1,1-dioxido-4-oxo-2H-1,2-benzothiazin-2-yl)propyl]-4-phenyl- (9CI) (CA INDEX NAME)



RN 173365-71-4 CAPLUS

CN 4-Piperidinecarbonitrile, 1-[3-(3,4-dihydro-1,1-dioxido-4-oxo-2H-1,2-benzothiazin-2-yl)propyl]-4-phenyl-, (2E)-2-butenedioate (1:1) (9CI)

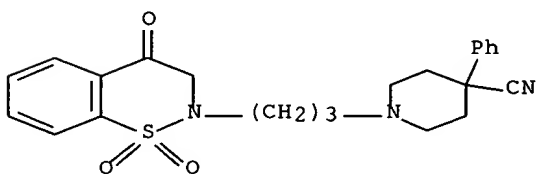
(CA

INDEX NAME)

CM 1

CRN 173365-70-3

CMF C23 H25 N3 O3 S



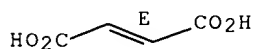
CM 2

CRN 110-17-8

CMF C4 H4 O4

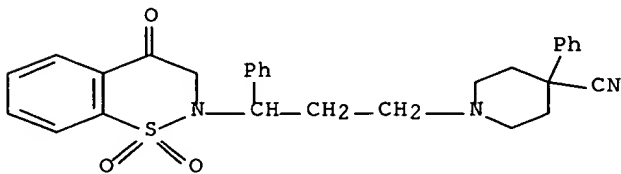
CDES 2:E

Double bond geometry as shown.



RN 173365-72-5 CAPLUS

CN 4-Piperidinecarbonitrile, 1-[3-(3,4-dihydro-1,1-dioxido-4-oxo-2H-1,2-benzothiazin-2-yl)-3-phenylpropyl]-4-phenyl- (9CI) (CA INDEX NAME)



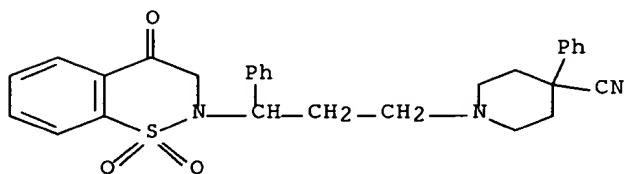
RN 173365-73-6 CAPLUS

CN 4-Piperidinecarbonitrile, 1-[3-(3,4-dihydro-1,1-dioxido-4-oxo-2H-1,2-benzothiazin-2-yl)-3-phenylpropyl]-4-phenyl-, (2E)-2-butenedioate (1:1)
(9CI) (CA INDEX NAME)

CM 1

CRN 173365-72-5

CMF C29 H29 N3 O3 S



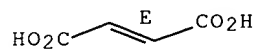
CM 2

CRN 110-17-8

CMF C4 H4 O4

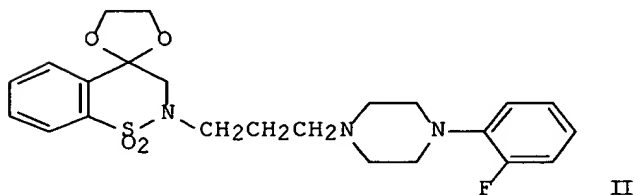
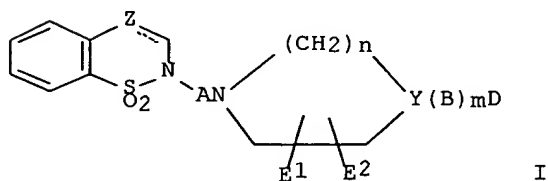
CDES 2:E

Double bond geometry as shown.



L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:933997 CAPLUS
 DN 123:340165
 TI Preparation of benzothiazine derivatives as serotonin 2 antagonists and .alpha.1 blockers
 IN Mizuno, Akira; Shibata, Makoto; Iwamori, Tomoe; Inomata, Norio
 PA Suntory Ltd., Japan
 SO PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9518117	A1	19950706	WO 1994-JP2194	19941222
	W: AU, CA, CN, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2156849	AA	19950706	CA 1994-2156849	19941222
	AU 9513710	A1	19950717	AU 1995-13710	19941222
	AU 690622	B2	19980430		
	EP 686632	A1	19951213	EP 1995-903941	19941222
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
SE	CN 1119859	A	19960403	CN 1994-191572	19941222
	CN 1058492	B	20001115		
	US 5874429	A	19990223	US 1996-669615	19960624
	US 6001827	A	19991214	US 1998-192287	19981116
	US 6316442	B1	20011113	US 1999-379853	19990824
	CN 1281854	A	20010131	CN 2000-103863	20000310
PRAI	JP 1993-345865	A	19931224		
	WO 1994-JP2194	W	19941222		
	JP 1995-177976	A	19950622		
	US 1995-507239	A2	19950824		
	US 1996-669615	A3	19960624		
	US 1998-192287	A3	19981116		
OS	MARPAT 123:340165				
GI					



AB The title compds. I [broken line indicates the presence or absence of a bond; Z represents C(OR1):, etc.; R1 represents alkyl, aralkyl, etc.; A represents alkylene, alkenylene, etc.; Y represents CH, C: or N, provided when Y is CH, then m represents 0 or 1, n represents 1 or 2, and B represents O, S, carbonyl, etc., when Y is C: , then m represents 1, n represents 1 or 2, and B represents :CR6 (wherein the double bond is bound to Y, and R6 represents optionally substituted aryl, etc.), and when Y is N, then m represents 0 or 1, n represents 2 or 3, and B represents carbonyl, etc.; E1 and E2 represent each H or lower alkyl; and D represents an arom. hydrocarbon group, arom. heterocyclic group, etc.] are prepd. The title compd. II (prepn. given) at 10⁻⁷ M in vitro gave 61.7 % inhibition of serotonin-induced contraction of isolated guinea pig artery.

IT 170631-53-5P

RL: BAC (Biological activity or effector, except adverse); SPN

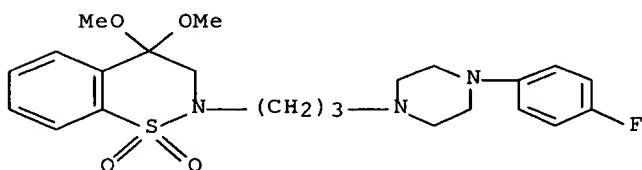
(Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(29prepn. of benzothiazine derivs. as serotonin 2 antagonists and .alpha.1 blockers)

RN 170631-53-5 CAPLUS

CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-4,4-dimethoxy-, 1,1-dioxide (9CI) (CA INDEX NAME)



IT 170631-54-6P 170631-55-7P 170631-56-8P
170631-57-9P 170631-58-0P 170631-59-1P
170631-67-1P 170631-68-2P 170631-69-3P
170631-70-6P 170631-71-7P 170631-72-8P
170631-73-9P 170631-74-0P 170631-75-1P
170631-76-2P 170631-77-3P

RL: BAC (Biological activity or effector, except adverse); SPN

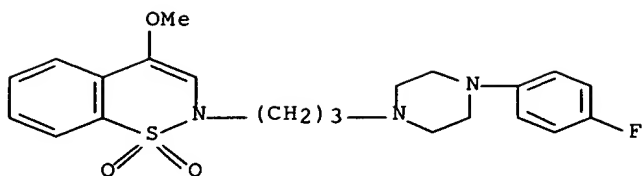
(Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of benzothiazine derivs. as serotonin 2 antagonists and .alpha.1 blockers)

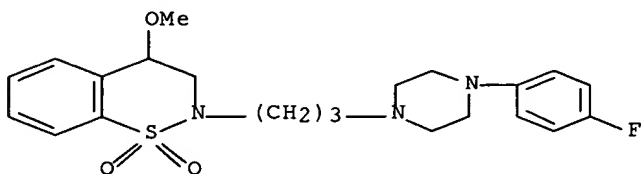
RN 170631-54-6 CAPLUS

CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-4-methoxy-, 1,1-dioxide (9CI) (CA INDEX NAME)



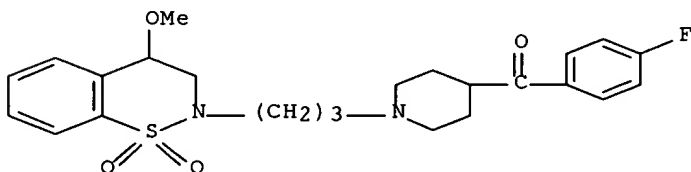
RN 170631-55-7 CAPLUS

CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-4-methoxy-, 1,1-dioxide (9CI) (CA INDEX NAME)



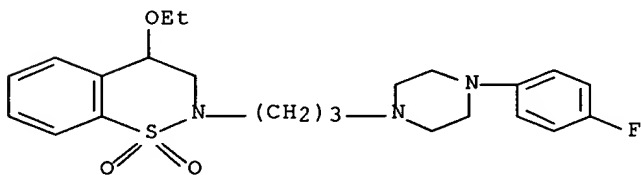
RN 170631-56-8 CAPLUS

CN Methanone, [1-[3-(3,4-dihydro-4-methoxy-1,1-dioxido-2H-1,2-benzothiazin-2-yl)propyl]-4-piperidinyl] (4-fluorophenyl)- (9CI) (CA INDEX NAME)



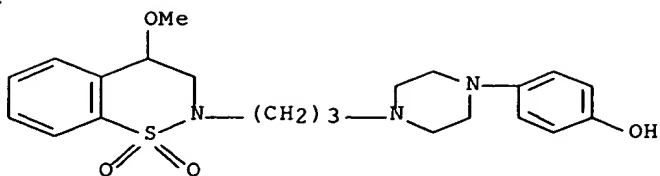
RN 170631-57-9 CAPLUS

CN 2H-1,2-Benzothiazine, 4-ethoxy-2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



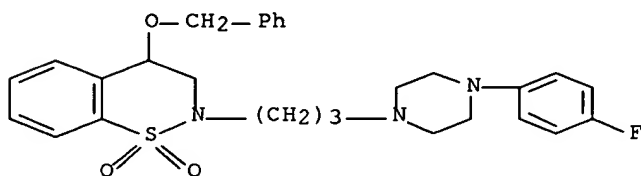
RN 170631-58-0 CAPLUS

CN Phenol, 4-[4-[3-(3,4-dihydro-4-methoxy-1,1-dioxido-2H-1,2-benzothiazin-2-yl)propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



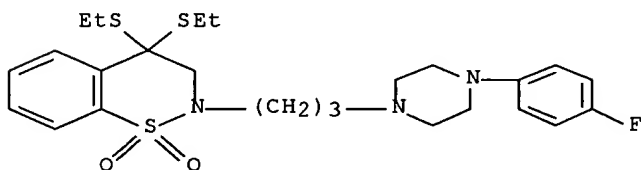
RN 170631-59-1 CAPLUS

CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-4-(phenylmethoxy)-, 1,1-dioxide (9CI) (CA INDEX NAME)



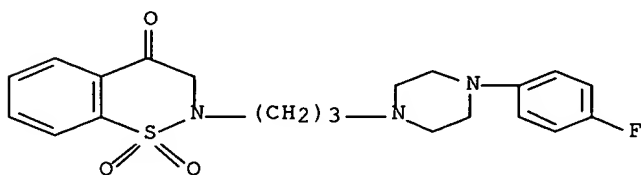
RN 170631-67-1 CAPLUS

CN 2H-1,2-Benzothiazine, 4,4-bis(ethylthio)-2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



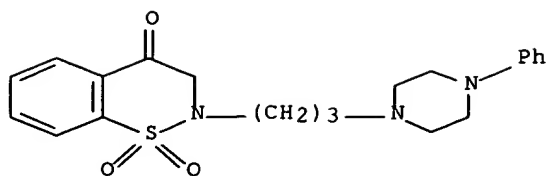
RN 170631-68-2 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



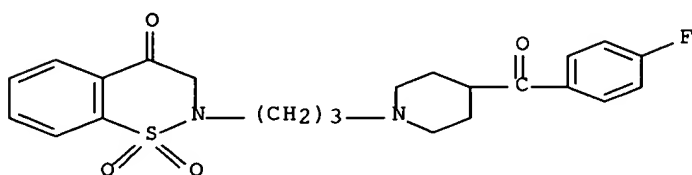
RN 170631-69-3 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-phenyl-1-piperazinyl)propyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



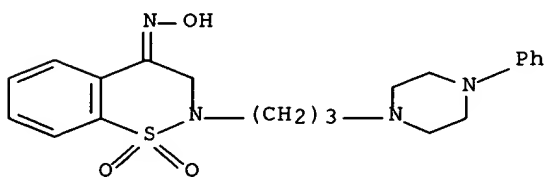
RN 170631-70-6 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(4-fluorobenzoyl)-1-piperidinyl]propyl]-
2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



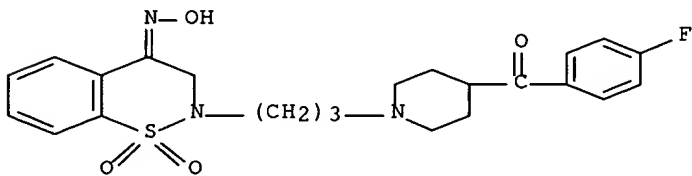
RN 170631-71-7 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-[3-(4-phenyl-1-piperazinyl)propyl]-, oxime, 1,1-dioxide (9CI) (CA INDEX NAME)



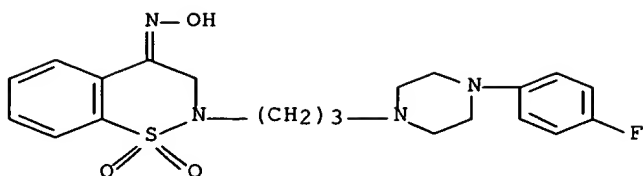
RN 170631-72-8 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(4-fluorobenzoyl)-1-piperidinyl]propyl]-
2,3-dihydro-, 4-oxime, 1,1-dioxide (9CI) (CA INDEX NAME)



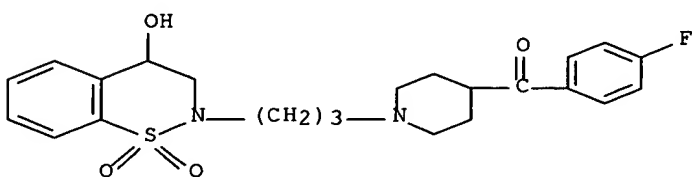
RN 170631-73-9 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-
2,3-dihydro-, oxime, 1,1-dioxide (9CI) (CA INDEX NAME)



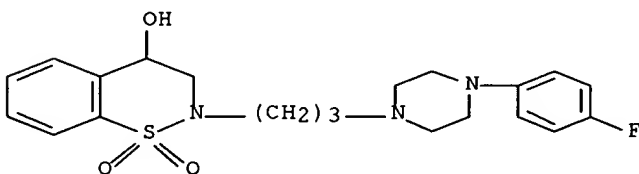
RN 170631-74-0 CAPLUS

CN Methanone, [1-[3-(3,4-dihydro-4-hydroxy-1,1-dioxido-2H-1,2-benzothiazin-2-yl)propyl]-4-piperidinyl](4-fluorophenyl)- (9CI) (CA INDEX NAME)



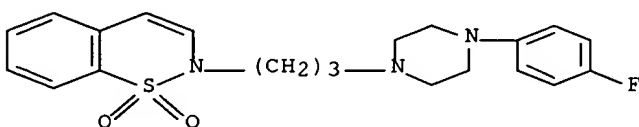
RN 170631-75-1 CAPLUS

CN 2H-1,2-Benzothiazin-4-ol, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



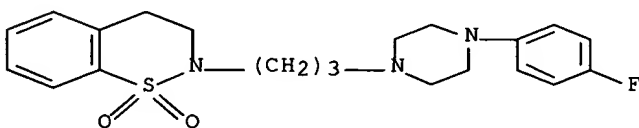
RN 170631-76-2 CAPLUS

CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

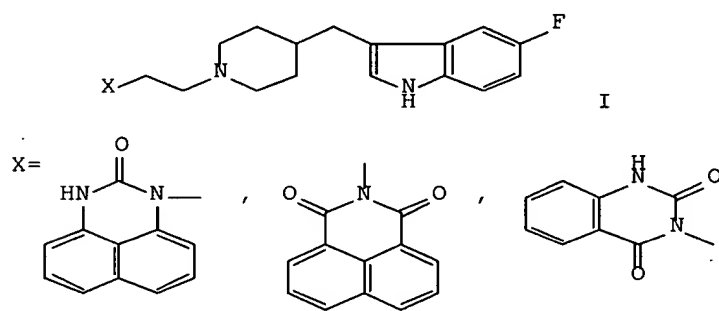


RN 170631-77-3 CAPLUS

CN 2H-1,2-Benzothiazine, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-3,4-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1994:435514 CAPLUS
 DN 121:35514
 TI New indole derivatives as potent and selective serotonin uptake inhibitors
 AU Mignani, Serge; Damour, Dominique; Doble, Adam; Labaudiniere, Richard; Malleron, Jean Luc; Piot, Odile; Gueremy, Claude
 CS Cent. Rech. Vitry-Alfortville, Rhone-Poulenc Rorer S.A., Vitry-sur-Seine, 94403, Fr.
 SO Bioorg. Med. Chem. Lett. (1993), 3(10), 1913-18
 CODEN: BMCLE8; ISSN: 0960-894X
 DT Journal
 LA English
 GI



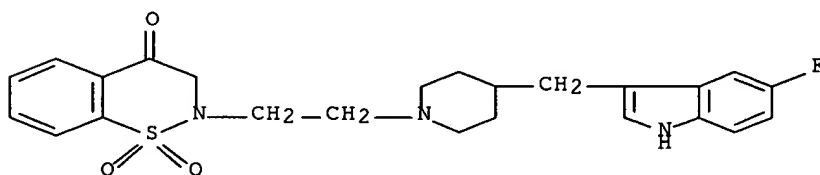
AB A new series of serotonin uptake inhibitors is described. Indole derivs., e.g. I, were prepd. and exhibit potent and selective activities in a binding assay for the 5-HT uptake site and also behave like strong in vivo serotonin uptake inhibitors.

IT **148287-50-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as serotonin uptake antagonist)

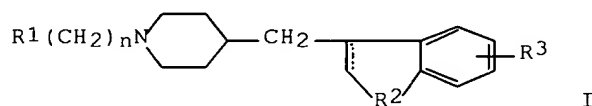
RN 148287-50-7 CAPLUS

CN 4H-1,2-Benzothiazin-4-one, 2-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-1-piperidinyl]ethyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1993:472498 CAPLUS
 DN 119:72498
 TI Preparation of 1-alkyl-4-(arylmethyl)piperidines and their
 pharmaceutical formulations as inhibitors of 5-HT reuptake
 IN Damour, Dominique; Labaudiniere, Richard; Malleron, Jean Luc; Mignani,
 Serge
 PA Rhone-Poulenc Rorer SA, Fr.
 SO Fr. Demande, 43 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2675801	A1	19921030	FR 1991-5048	19910424
OS	MARPAT 119:72498				
GI					



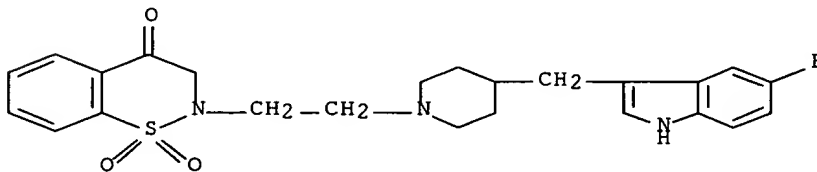
AB Title piperidines I [R1 = OH, (un)substituted Ph, heterocycllyl, R4SO2NR5
 (R4 = Ph, quinolyl, R5 = H, alkyl), or N(CO2R8)NHCO2R8 (R8 = alkyl); R2
 = CH2, CH2CH2, NH, N-alkylimino; R3 = H, halo; R4 = Ph, quinolyl; n = 1-
 3; partial bond represents single or double C-C bond, where for R2 = NH,
 it is a double bond, and for R2 = CH2CH2, it a single bond] are prepd.
 by condensation of an appropriate alkyl halide R1(CH2)nX with
 4-(arylmethyl)piperidine. The prepn. of racemates and enantiomers of
 compds. I contg. at least one chiral center, and their salts with
 mineral or org. acids, are claimed. Formulations of I for medical use
 are given(3 examples). The compds. exhibit inhibitory activity of 5-HT
 recapture.

IT **148287-50-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as inhibitor of 5-HT recapture)

RN 148287-50-7 CAPLUS

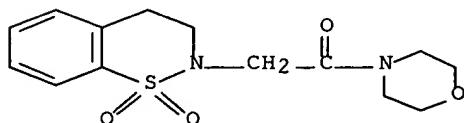
CN 4H-1,2-Benzothiazin-4-one, 2-[2-[4-[(5-fluoro-1H-indol-3-yl)methyl]-1-
 piperidinyl]ethyl]-2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



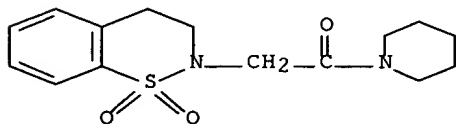
L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1974:48016 CAPLUS
 DN 80:48016
 TI Therapeutically active dihydrobenzothiazine-s-dioxides
 IN Sianesi, Enrico; Da Re, Paulo; Setnikar, Ivo; Massarani, Elena
 PA Recordati, S. A. Chemical and Pharmaceutical Co.
 SO U.S., 7 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3770733	A	19731106	US 1971-176254	19710830
AB	Benzothiazinylalkylcarboxamides I (X = CH ₂ , R = H, R ₁ = H, Me, Et, Pr, CHMe ₂ , Bu, CHMeEt, CMe ₃ , allyl, propargyl, NMe ₂ , NH ₂ , NH ₂ Et, NMePh, N:CHMe, NRR ₁ = NMe ₂ , NEt ₂ , N(CHMe ₂) ₂ , morpholino, piperidino, pyrrolidino, 4-methylpiperazino; X = CH ₂ CH ₂ , R = H, R ₁ = CHMe ₂ ; X = CMe ₂ , NRR ₁ = NH ₂ , NHMe, NHCHMe ₂ , NHNMe ₂) were prepd. for use as hypnotics and anticonvulsants. Thus, o-NCCH ₂ C ₆ H ₄ NH ₂ .HCl was diazotized, and treated with SO ₂ and CuCl to give o-NCCH ₂ C ₆ H ₄ SO ₂ Cl, which on treatment with NH ₃ gave o-NCCH ₂ C ₆ H ₄ SO ₂ NH ₂ , followed by cyclization to II (R ₂ = H). Treatment with BrCH ₂ CO ₂ Et gave II (R ₂ = CH ₂ CO ₂ Et), which with NH ₃ gave I (X = CH ₂ , R = R ₁ = H), having an anticonvulsant ED ₅₀ in mice of 50 mg/kg ip.				
IT	35263-33-3P 35263-34-4P 35263-35-5P 35263-36-6P				

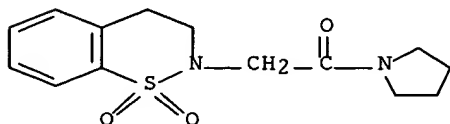
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 35263-33-3 CAPLUS
 CN Morpholine, 4-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-(9CI) (CA INDEX NAME)



RN 35263-34-4 CAPLUS
 CN Piperidine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-(9CI) (CA INDEX NAME)

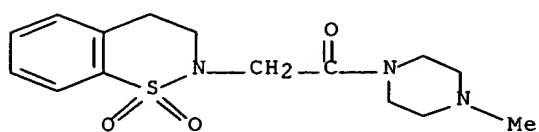


RN 35263-35-5 CAPLUS
 CN Pyrrolidine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-(9CI) (CA INDEX NAME)

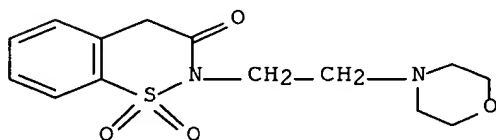


RN 35263-36-6 CAPLUS

CN Piperazine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1974:69 CAPLUS
 DN 80:69
 TI New benzothiazines. 4. 1H-2,3-Benzothiazin-4(3H)-one 2,2-dioxide and 2H-1,2-benzothiazin-3(4H)-one 1,1-dioxide nitrogen derivatives with central nervous system activity
 AU Sianesi, Enrico; Redaelli, Riccardo; Magistretti, Maria J.; Massarani, Elena
 CS Res. Div., Recordati S.a.S., Milan, Italy
 SO J. Med. Chem. (1973), 16(10), 1133-7
 CODEN: JMCMAR
 DT Journal
 LA English
 AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. Among the 2 series of title compds., the most active hypnotics and anticonvulsants were 3-allyl-1H-2,3-benzothiazin-4(3H)-one 2,2-dioxide (I) [31846-48-7] and 2-allyl-2H-1,2-benzothiazin-3(4H)-one 1,1-dioxide (II) [31848-18-7]. I had a hypnotic ED50 of 250 mg/kg, i.p. and an anticonvulsant ED70 of 100 mg/kg, i.p. in mice; corresponding values for II were 150 and 160 mg/kg. I and II were prepd. by direct alkylation of the resp. benzothiazinone dioxides with allyl bromide.
 IT **31848-26-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 31848-26-7 CAPLUS
 CN 2H-1,2-Benzothiazin-3(4H)-one, 2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1972:72535 CAPLUS
 DN 76:72535
 TI 3,4-Dihydro-2H-1,2-benzothiazine-2-acetamide S,S-dioxide derivatives
 IN Sianesi, Enrico; Da Re, Paolo; Setnikar, Ivo; Massarani, Elena
 PA Recordati S. A. Chemical and Pharmaceutical Co.
 SO Ger. Offen., 43 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2124953	A	19711216	DE 1971-2124953	19710519
	DE 2124953	B2	19741114		
	DE 2124953	C3	19750703		
	BE 762273	A1	19710701	BE 1971-99171	19710129
	ES 388284	A1	19740216	ES 1971-388284	19710215
	CH 523906	A	19720615	CH 1971-523906	19710219
	CH 527841	A	19720915	CH 1971-527841	19710219
	IL 36248	A1	19730730	IL 1971-36248	19710222
	NL 7102509	A	19711214	NL 1971-2509	19710225
	FR 2094180	A5	19720204	FR 1971-13767	19710419
	FR 2094180	B1	19741018		
	ZA 7103102	A	19720126	ZA 1971-3102	19710512
	GB 1337478	A	19731114	GB 1971-19514	19710608
PRAI	IT 1970-25826		19700611		

GI For diagram(s), see printed CA Issue.

AB Title compds. (I), sedatives and hypnotics, were prepd. by reaction of amines with I (R = OEt or Cl) or by reaction of 3,4-dihydro-2H-1,2-benzothiazine S,S-dioxide (II) with Na alkoxides and ClQCOR. Thus, 7.15

g

I (Q = CH₂, R = OEt) kept 4 hr with NH₃-satd. MeOH at room temp. and briefly refluxed, gave 5.3 g I (Q = CH₂, R = NH₂). Similarly prepd.

were

27 addnl. I, e.g. (Q and R given): CH₂Et, NH₂; CH₂, NHNH₂; CH₂, NHPr (III); CMe₂, NMe₂; CH₂, morpholino. Many I were tested in mice, e.g.

III

had LD₅₀ 560 mg/kg on i.p. administration, the hypnotic effect was ED₅₀

=

122 mg/kg and the sedative effect ED₅₀ = 28 mg/kg on oral

administration.

IT 35263-33-3P 35263-34-4P 35263-35-5P

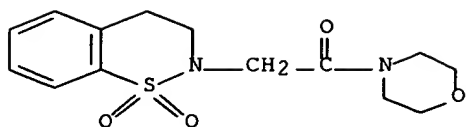
35263-36-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 35263-33-3 CAPLUS

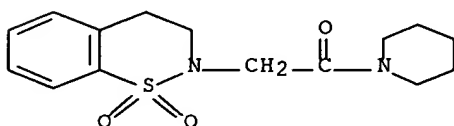
CN Morpholine, 4-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-

(9CI) (CA INDEX NAME)



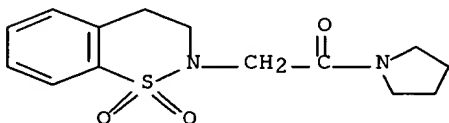
RN 35263-34-4 CAPLUS

CN Piperidine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-
(9CI) (CA INDEX NAME)



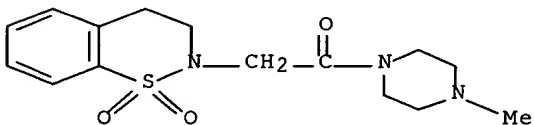
RN 35263-35-5 CAPLUS

CN Pyrrolidine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-
(9CI) (CA INDEX NAME)



RN 35263-36-6 CAPLUS

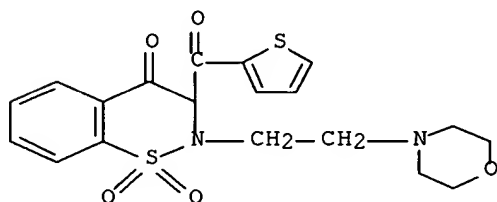
CN Piperazine, 1-[(3,4-dihydro-1,1-dioxido-2H-1,2-benzothiazin-2-yl)acetyl]-4-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1971:476815 CAPLUS
 DN 75:76815
 TI 1,2-Benzothiazine compounds
 IN Hasegawa, Gen; Munakata, Tomohiko; Furuta, Tetsuya; Tsuda, Tachimi
 PA Yoshitomi Pharmaceutical Industries, Ltd.
 SO Jpn. Tokkyo Koho, 3 pp.
 CODEN: JAXXAD
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 46022027	B4	19710622	JP	19690118

GI For diagram(s), see printed CA Issue.
 AB I (X = Cl, Br, OMe, Me, H; Y = aminoalkyl; Z = O, S), useful as diuretics, antiinflammants, antibacterials, etc., are manufd. 3-(2-Thienylcarbonyl)-3,4-dihydro-2H - 1,2 - benzothiazin - 4 - one 1,1-dioxide, in a mixt. of NaOH, EtOH, and H2O, is treated with 2-morpholinoethyl chloride to give I (X = H, Y = morpholinoethyl, Z = S); hydrochloride m. 235-7.degree.. Similarly prepd. are 10 more I.
 IT **33215-46-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 33215-46-2 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 2,3-dihydro-2-(2-morpholinoethyl)-3-(2-thenoyl)-, 1,1-dioxide, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2002 ACS

AN 1971:141829 CAPLUS

DN 74:141829

TI Antispasmodic and narcotic oxodihydrobenzothiazine S-dioxides

IN Sianesi, Enrico; Setnikar, Ivo; Massarani, Elena; Da Re, Paolo

PA Recordati S. A. Chemical and Pharmaceutical Co.

SO Ger. Offen., 74 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2022694	A	19701112	DE 1970-2022694	19700508
	DE 2022694	B2	19741031		
	DE 2022694	C3	19750619		
	ES 378815	A1	19730201	ES 1970-378815	19700420
	BE 749672	A	19701001	BE 1970-749672	19700428
	NL 7006352	A	19701111	NL 1970-6352	19700429
	ZA 7003127	A	19710127	ZA 1970-3127	19700508
	FR 2051511	A1	19710409	FR 1970-16831	19700508
	FR 2051511	A5	19710409		
	CH 509340	A	19710630	CH 1970-509340	19700508
	CH 511249	A	19710815	CH 1970-511249	19700508
	CH 515266	A	19711115	CH 1970-515266	19700508
	AT 299222	B	19720612	AT 1970-4177	19700508
	GB 1308022	A	19730228	GB 1970-22395	19700508
	SE 373585	B	19750210	SE 1970-6339	19700508

PRAI IT 1969-16635 19690509

GI For diagram(s), see printed CA Issue.

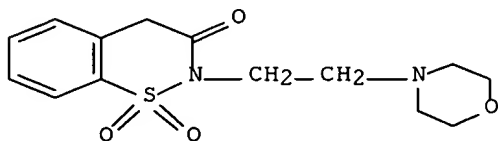
AB The 3,4-dihydro-3-oxo-2H'-1, 2-benzothiazine S,S-dioxides (I) and 3,4-dihydro-4-oxo-1H-2,3-benzothiazine S,S-dioxides (II), where R = alkyl, CH₂CH:CH₂, CH₂CONR₁R₂, are prepd. by cyclization of an o-sul-famoylphenylacetic acid or an o-carboxybenzylsulfonamide in the presence of a dehydrating agent. Thus, o-NCCH₂C₆H₄-SO₂Cl, m. 109-11.degree., stirred in C₆H₆ 30 min with introduction of NH₃ at 0.degree. gave o-CNCH₂C₆H₄SO₂NH₂, m. 158-60.degree., refluxed 3 hr in N NaOH and acidified to give o-H₂NSO₂C₆H₄CH₂CO₂H (III), m. 175-80.degree.. III heated 1 hr at 100.degree. with polyphosphoric acid yielded I (R = H), m. 198-201.degree.. Similarly were several I and II prepd.

IT 31848-26-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 31848-26-7 CAPLUS

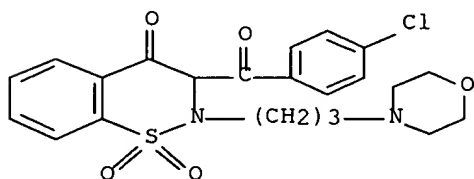
CN 2H-1,2-Benzothiazin-3(4H)-one, 2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

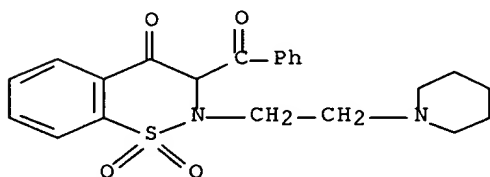
L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1971:141828 CAPLUS
 DN 74:141828
 TI 1,2-Benzothiazines
 IN Hasegawa, Gen; Munakata, Tomohiko; Yoshida, Tetsuya; Tsumagari, Tatsumi
 PA Yoshitomi Pharmaceutical Industries, Ltd.
 SO Jpn. Tokkyo Koho, 5 pp.
 CODEN: JAXXAD
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 46000029	B4	19710105	JP	19680318
GI	For diagram(s), see printed CA Issue.				
AB	3-Benzoyl-3,4-dihydro-2H-1,2-benzothiazin-4-one 1,1-dioxide (5 g) in 19 ml N NaOH, 13 ml H ₂ O, and 63 ml EtOH was stirred overnight with piperidinoethyl chloride (from 3.7 g HCl salt) to give 3.5 g I (R = Ph, X = CH ₂ CH ₂ , NY ₂ = piperidino), m. 215-18.degree.. Similarly, I were prepd. (R, X, Y, or NY ₂ , and m.p. given): Me, (CH ₂) ₃ , Pr, 173-5.degree.; p-ClC ₆ H ₄ , (CH ₂) ₃ , morpholino, 210-12.degree. (HCl salt); Ph, CH ₂ CHMeCH ₂ , 4-phenyl-1-piperazino, 218-21.degree. (HCl salt). Also prepd. were 7-Cl, 6-MeO, and other analogs, in which R was Me ₃ C, 3,4-ClC ₆ H ₃ , p-anisyl, p-tolyl, cyclohexyl, or similar residues.				
IT	31848-42-7P 31858-76-1P 32650-75-2P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	31848-42-7 CAPLUS				
CN	4H-1,2-Benzothiazin-4-one, 3-(p-chlorobenzoyl)-2,3-dihydro-2-(3-morpholinopropyl)-, 1,1-dioxide, hydrochloride (8CI) (CA INDEX NAME)				

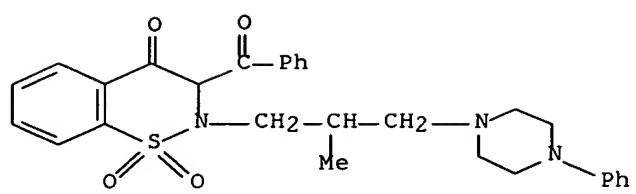


●x HCl

RN 31858-76-1 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 3-benzoyl-2,3-dihydro-2-(2-piperidinoethyl)-, 1,1-dioxide (8CI) (CA INDEX NAME)



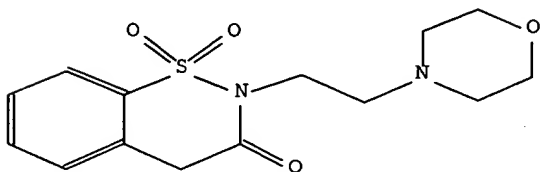
RN 32650-75-2 CAPLUS
 CN 4H-1,2-Benzothiazin-4-one, 3-benzoyl-2,3-dihydro-2-[2-methyl-3-(4-phenyl-1-piperazinyl)propyl]-, 1,1-dioxide, hydrochloride (8CI) (CA INDEX NAME)



●x HCl

L7 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2002 BEILSTEIN CDS MDL

Beilstein Records (BRN): 691238
Chemical Name (CN): 2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,4-dihydro-2H-1.1lambda.6-benzo<e><1,2>thiazin-3-one
Autonom Name (AUN): 2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,4-dihydro-2H-1.1lambda.6-benzo<e><1,2>thiazin-3-one
Molec. Formula (MF): C14 H18 N2 O4 S
Molecular Weight (MW): 310.37
Lawson Number (LN): 31166, 30824, 3018
Compound Type (CTYPE): heterocyclic
Constitution ID (CONSID): 628350
Tautomer ID (TAUTID): 659824
Beilstein Citation (BSO): 5-27
Entry Date (DED): 1988/11/28
Update Date (DUPD): 1992/11/13



Reference(s):
1. Sianesi, E. et al., J. Med. Chem., CODEN: JMCMAR, 16, <1973>, 1133-1137
CDER
Note(s): Hydrochlorid F:235-238grad
Reference(s):
1. Patent: Recordati S.A. DE 2022694 1970, Chem. Abstr., 74(141829)

Further Information:
FINFO

Reference(s):
1. Patent: Recordati S.A. DE 2022694 1970, Chem. Abstr., 74(141829)

Reference(s):
1. Sianesi, E. et al., J. Med. Chem., CODEN: JMCMAR, 16, <1973>, 1133-1137

L10 ANSWER 1 OF 14 MARPAT COPYRIGHT 2002 ACS

AN 136:151174 MARPAT

TI Preparation of 3-[(arylazabicycloalkyl)alkyl]quinazoline-2,4-diones as serotonin reuptake inhibitors and 5-HT_{2A} receptor antagonists

IN Butler, Todd William; Fliri, Anton Franz Josef; Gallaschun, Randall James

PA Pfizer Products Inc., USA

SO Eur. Pat. Appl., 68 pp.

CODEN: EPXXDW

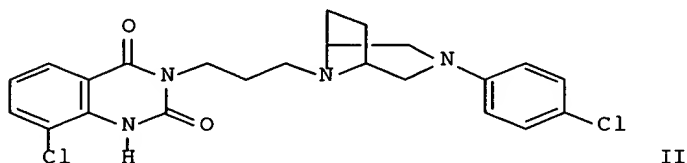
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1178048	A1	20020206	EP 2001-306629	20010802
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 2002052355	A1	20020502	US 2001-920500	20010801
	BR 2001003210	A	20020326	BR 2001-3210	20010803
	JP 2002114789	A2	20020416	JP 2001-236982	20010803
PRAI	US 2000-222707P		20000803		

GI



AB R(CH₂)_nZR₁ [I; e.g., (un)substituted 2,4-dioxoquinazolin-3-yl; R₁ = e.g.,

(un)substituted Ph; Z = azabicycloalkylene; n = 3 or 4] were prepd.

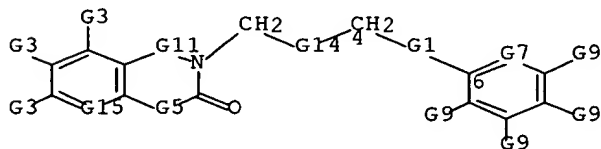
Thus,

3,2-Cl(H₂N)C₆H₃CO₂H underwent cyclocondensation/cyclization with Cl(CH₂)₃NCO to give 8-chloro-3,4-dihydro-2H-1-oxa-4a,9-diazaanthracene-

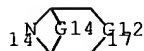
10-

one which underwent aminative ring opening with 3-(4-chlorophenyl)-3,8-diazabicyclo[3.2.1]octane to give title compd. II. Data for biol. activity of I were given.

MSTR 1



G1 = 14-4 17-6



G5 = 154

~~154~~—G6

G11 = SO2

G14 = (1-2) CH2

G15 = 159

~~159~~—G16

MPL: claim 1

NTE: and pharmaceutically acceptable salts

NTE: additional ring formation also claimed

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 14 MARPAT COPYRIGHT 2002 ACS

AN 136:85825 MARPAT

TI Preparation of piperazinyl(or piperidinyl)-substituted indole derivatives

for the treatment of CNS disorders

IN Bang-Andersen, Benny; Felding, Jakob; Kehler, Jan

PA H. Lundbeck A/S, Den.

SO PCT Int. Appl., 39 pp.

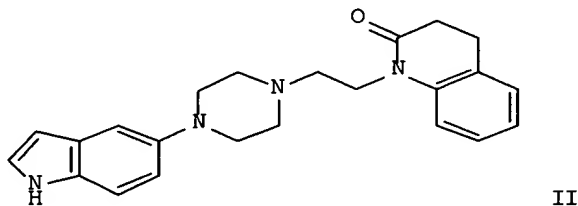
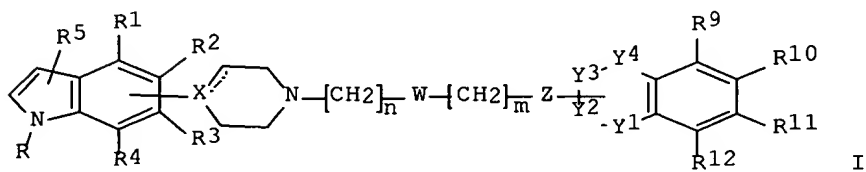
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

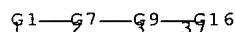
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002000645	A1	20020103	WO 2001-DK407	20010613
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRAI	DK 2000-1018		20000629		
GI					



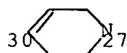
AB The title compds. [I; Y1 = N, which is bound to Z, Z and Y2 = CH2, CO,
CS,
SO and SO2, Y3 = O, S, CHR7, Y4 = O, S, CHR8; or Y2 = N, which is bound
to
Z, Z and Y1 = CH2, CO, CS, SO and SO2, Y3 = CHR7, Y4 = O, S, CHR8; or Y2
=
N, which is bound to Z, Z and Y3 = CH2, CO, CS, SO and SO2, Y1 = CHR6,
Y4

= O, S, CHR8; W = a bond, O, S, CO, CS, SO, SO2; X = C, CH, N; n = 0-5;
m
= 0-5; n + m = 1-6; one of R1-R4 forms a bond to X and the others of R1-
R4
and R5 and R9-R12 = H, halo, CN, etc.; R6-R8 = H, halo; R = H, alkyl,
acyl, etc.] and their pharmaceutically acceptable salts which are
dopamine
and serotonin receptor ligands, and therefore useful in the treatment of
certain psychiatric and neurol. disorders, i. e. schizophrenia and other
psychoses, anxiety disorders, depression, migraine, cognitive disorders,
ADHD and sleep improvement, were prepd. and formulated. Thus, reacting
5-(piperazin-1-yl)-1H-indole with 1-(2-chloroethyl)-3,4-dihydroquinolin-
2(1H)-one (preps. given) in the presence of LiBr, Et3N and DMF in THF
and
butanone afforded II.oxalate which showed 90% inhibition of the binding
of
[3H]YM-09151-2 to human dopamine D4,2 receptors at 50 nM, and IC50 of 29
nM against 5-HT2A binding.

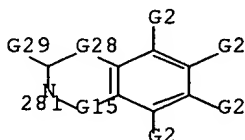
MSTR 1



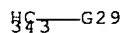
G7 = 30-1 27-3



G10 = (1-5) CH2
G15 = SO2
G16 = 281



G28 = 343



MPL: claim 1
NTE: or pharmaceutically acceptable salts
NTE: substitution is restricted

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 136:37528 MARPAT
 TI Preparation of indole derivatives for the treatment of CNS disorders
 IN Bang-Andersen, Benny; Felding, Jakob; Kehler, Jan; Andersen, Kim
 PA H. Lundbeck A/S, Den.
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001096328	A1	20011220	WO 2001-DK406	20010613
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	DK 2000-919		20000614		
	US 2000-212445P		20000616		
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; one of Y1, Y2 = N, which is bound to Y4, and the other Y1 and Y2 = CO, CS, SO, etc; Y4 = CH2, CO, CS, etc.; Y3 = ZCH2, CH2Z, CH2CH2; Z = O, S; W = a bond, O, S, etc.; n = 0-5; m = 0-5; m + n

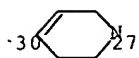
=
 1-10; X = C, CH, N; R1-R9 = H, halo, CN, etc.; R10 = H, alkyl, aryl, etc.]

which are dopamine and serotonin receptor ligands, and are useful in the treatment of certain psychiatric and neurol. disorders, i.e. schizophrenia, other psychoses, anxiety disorders, depression, migraine, cognitive disorders, ADHD and sleep improvement, were prepd. and formulated. Thus, reacting 5-fluoro-3-(piperidin-4-yl)-1H-indole with 1-(2-chloroethyl)-3,4-dihydroquinolin-2-(1H)-one in the presence of Et3N in DMF and butanone afforded II which showed 92% inhibition of the binding of [3H]YM-09151-2 to human dopamine D4 receptors at 50 nM.

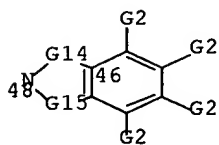
MSTR 1

G1—G7—G9—G16

G7 = 30-1 27-3



G10 = (1-6) CH2
 G14 = CH2CH2
 G15 = SO2
 G16 = 48



MPL: claim 1
 NTE: or pharmaceutically acceptable acid addition salts
 NTE: substitution is restricted

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 14 MARPAT COPYRIGHT 2002 ACS

AN 134:222727 MARPAT

TI Preparation of tetrahydroquinazoline-2,4-diones for inhibiting serotonin reuptake or 5-HT_{2A} serotonin receptor binding

IN Butler, Todd William; Fliri, Anton Franz Josef; Gallaschun, Randall James;

Jones, Brian Patrick; Ragan, John Anthony

PA Pfizer Products Inc., USA

SO Eur. Pat. Appl., 35 pp.

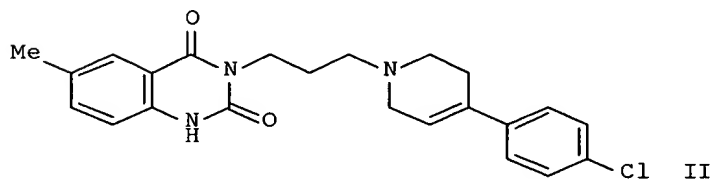
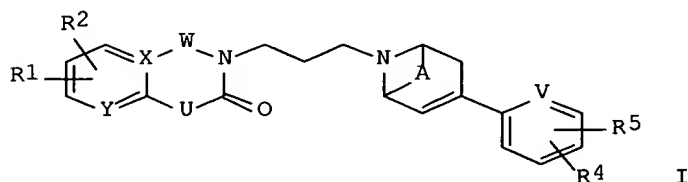
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1083178	A1	20010314	EP 2000-307433	20000830
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001114778	A2	20010424	JP 2000-261115	20000830
	JP 3285343	B2	20020527		
	JP 2002212161	A2	20020731	JP 2001-337442	20000830
PRAI	US 1999-151725P		19990831		
	JP 2000-261115		20000830		
GI					



AB The title compds. [I; A = (CH₂)_n (wherein n = 0-2); U = CH₂, NH, NR₃;
R₁,

R₂ = H, alkyl, Cl, etc.; or R₁ and R₂, together with the atoms to which they are attached, form 5-6 membered carbocyclic or heterocyclic ring;

R₃

= H, alkyl, C(O)alkyl; R₄, R₅ = H, alkyl, Cl, etc.; V = CH, CR₃, N; W = CH₂, CO, SO₂; X = C, N; Y = CH, CR₁, CR₂, N] and their pharmaceutically acceptable salts, useful in treating diseases, conditions or disorders

of

the central nervous system, were prepd. Thus, treatment of Me 2-amino-5-methylbenzoate with triphosgene in the presence of Et₃N in CH₂Cl₂ followed by addn. of 3-[4-(4-chlorophenyl)-3,6-dihydro-2H-

pyridin-1-

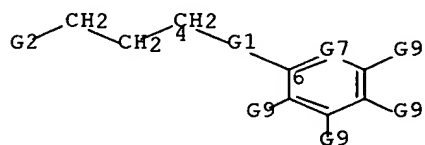
yl]propylamine (prepn. given) afforded 79% II. The exemplified compds.

I

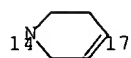
showed more than 50% inhibition at <50 nM in the serotonin reuptake assay

and binding assays for 5-Ht2A serotonin receptor.

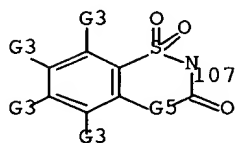
MSTR 1



G1 = 14-4 17-6



G2 = 107



G5 = CH2

MPL: claim 1

NTE: or pharmaceutically acceptable salts

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 14 MARPAT COPYRIGHT 2002 ACS

AN 131:170632 MARPAT

TI Novel cyclic sulfonamide derivatives as metalloproteinase inhibitors

IN Duan, Jingwu; Chen, Lihua; Cherney, Robert J.; Decicco, Carl P.; Voss, Matthew E.

PA Du Pont Pharmaceuticals Company, USA

SO PCT Int. Appl., 144 pp.

CODEN: PIXXD2

DT Patent

LA English

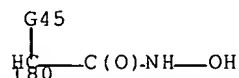
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9941246	A1	19990819	WO 1999-US2767	19990210
	W: AU, CA, IL, JP, MX, NZ				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2319173	AA	19990819	CA 1999-2319173	19990210
	AU 9925947	A1	19990830	AU 1999-25947	19990210
	EP 1054877	A1	20001129	EP 1999-905898	19990210
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,				
FI	JP 2002503657	T2	20020205	JP 2000-531441	19990210
PRAI	US 1998-74301P	19980211			
	WO 1999-US2767	19990210			
AB	Cyclic sulfonamides ACR1R2NR3SO2CR4:CR5R6 [A = CHO, alkanoyl, CO2H or esters, CHRCO2H (R = H, Me, Et, i-Pr, vinyl, 1- or 2-propenyl), CHRCONHOH, CONHOH or O-substituted derivs., (un)substituted amino, SH, CH2SH, (un)substituted SONH2 or SNHNNH2, P(O)(OH)2, (un)substituted P(O)(OH)NH2; R1 = H, Q (carbocyclic or heterocyclic residue), alkylene-Q, alkenylene-Q, alkynylene-Q, oxa- or aza-alkylene-Q, etc.; R2 = H, alkylene-H, alkenylene-H, alkynylene-H, oxa- or aza-alkylene-H, etc.; R3 and R5 form an (un)substituted 5-10 membered ring contg. 0-2 addnl. heteroatoms and 0-1 double bonds; R4 and R6 form benzo or (un)substituted heteroarom. ring] were prepd. as metalloprotease inhibitors. Thus, (R)-4,5-dihydro-N-hydroxy-.alpha.-methyl-1,2,5-benzothiadiazepine-2(3H)-acetamide 1,2-dioxide was prepd. starting from the reaction of 2-nitrobenzenesulfonyl chloride with D-alanine Me ester hydrochloride.				

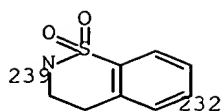
MSTR 1

G1—G19—G28

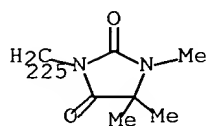
G1 = 180



G19 = 239-2 232-4



G45 = 225

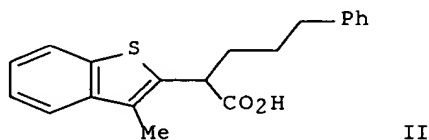
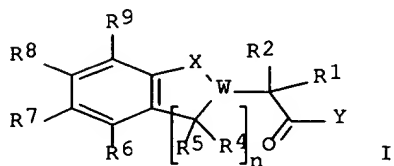


DER: or pharmaceutically acceptable salts
 MPL: claim 1
 NTE: substitution is restricted
 STE: or stereoisomers

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 130:352182 MARPAT
 TI Preparation of hydroxamic and carboxylic acid derivatives having MMP and TNF inhibitory activity
 IN Baxter, Andrew Douglas; Owen, David Alan; Montana, John Gary; Nicholson, Elisabeth Jane Reed
 PA Darwin Discovery Limited, UK
 SO PCT Int. Appl., 26 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9924419	A1	19990520	WO 1998-GB3396	19981112
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2308361	AA	19990520	CA 1998-2308361	19981112
	AU 9910470	A1	19990531	AU 1999-10470	19981112
	AU 746158	B2	20020418		
	ZA 9810359	A	19991112	ZA 1998-10359	19981112
	EP 1030851	A1	20000830	EP 1998-952928	19981112
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,				
FI	JP 2001522843	T2	20011120	JP 2000-520433	19981112
	US 6310088	B1	20011030	US 2000-564217	20000504
PRAI	GB 1997-23904		19971112		
	GB 1998-14043		19980629		
	US 1997-68793P		19971224		
	US 1998-190334		19981112		
	WO 1998-GB3396		19981112		
GI					



AB The title compds. [I; n =1-2; X = O, S(O)0-2; Y = OH, NHOH; W = CR3, N (when X = SO2); R1 = H, alkyl, alkenyl, etc.; R2 = H, alkyl; CR1R2 = (un)substituted cycloalkyl, heterocycloalkyl; R3-R5 = H, alkyl; R3R4 = a bond; R6-R9 = H, alkyl, aryl, etc.; R6 and R7, R7 and R8, R8 and R9, oe when n = 1, R5 and R6, and the carbons to which they are attached may

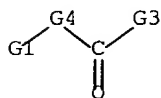
form

aryl, heteroaryl, cycloalkenyl, heterocycloalkenyl], useful as therapeutic agents, by virtue of having MMP and TNF inhibitory activity, were prepd. Thus, treatment of 3-methylbenzo[b]thiophene-2-acetic acid with BuLi/hexanes followed by addn. of 1-bromo-3-phenylpropane afforded 37%

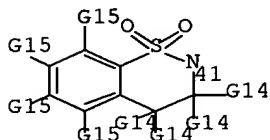
II.

Compds. I are effective at 0.01-50 mg/kg/day.

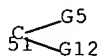
MSTR 1



G1 = 41

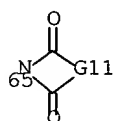


G4 = 51



G5 = alkyl<(1-6)> (SO (1-) G8)

G8 = 65



DER: and salts, solvates, hydrates, N-oxides, and protected amine, carboxy,

and hydroxamic derivatives

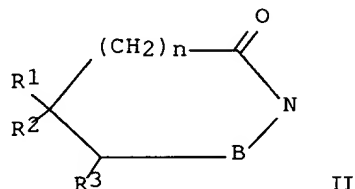
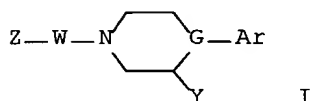
MPL: claim 1

NTE: additional ring formation also claimed

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 129:211720 MARPAT
 TI Dopamine D4 receptor antagonist
 IN Ohno, Yukihiro; Kojima, Atsuyuki; Wakabayashi, Junko; Tagashira, Rie
 PA Sumitomo Pharmaceuticals Co., Ltd., Japan
 SO PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

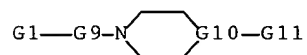
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9837893	A1	19980903	WO 1998-JP744	19980223
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9862306	A1	19980918	AU 1998-62306	19980223
PRAI	JP 1997-59809		19970226		
	WO 1998-JP744		19980223		
GI					



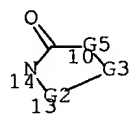
AB An imide deriv. represented by general formula (I) [wherein Z is represented by formula (2) (wherein B represents a carbonyl group or the like; for R1, R2, and R3, R1 and R2 combine with each other to form an optionally substituted hydrocarbon ring with R3 representing a hydrogen atom, or alternatively R1 and R3 may combine with each other to form an optionally substituted hydrocarbon ring with R2 representing a hydrogen atom; and n is 0 or 1), or a group represented by R4CO-NR5- (wherein R4 represents an optionally substituted Ph group or the like; and R5 represents a hydrogen atom or a lower alkyl group); W represents an optionally substituted lower alkylene group or the like, G represents a nitrogen atom or a methine group; Ar represents an optionally substituted pyrimidyl group or the like; and Y represents a hydrogen atom or - (CH2)m- (wherein m is 1, 2 or 3) with the other end being optionally bonded to the o-position of Ar] or a pharmaceutically acceptable salt thereof is an antagonist against a dopamine D4 receptor that does not cause an extrapyramidal syndrom assocd. with dopamine D2 receptor antagonism and

is
 useful as a therapeutic agent for mental disorder, e.g., schizophrenia
 in
 a neg. state or the like and L-DOPA mental disorder during treatment of
 Parkinson's disease.

MSTR 1



G1 = 14



G2 = SO₂

G3 = o-C₆H₄

G5 = CH₂

G9 = loweralkylene (SO)

MPL: claim 1

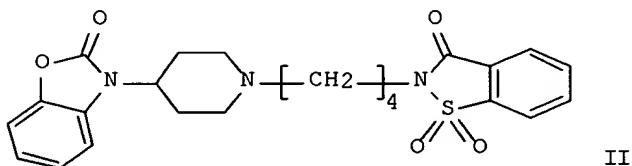
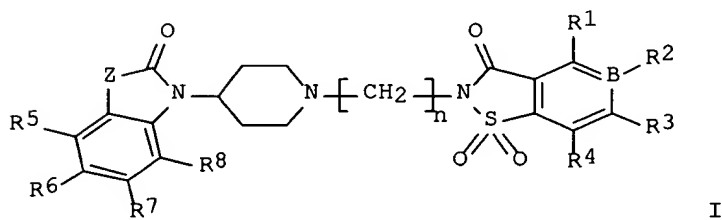
NTE: additional ring formation also claimed

NTE: additional substitution also claimed

L10 ANSWER 8 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 129:54361 MARPAT
 TI Preparation of benzisothiazolones and analogs as .alpha.1C-adrenergic receptor antagonists
 IN Huff, Joel R.; Lee, Hee-yoon; Nerenberg, Jennie B.; Thompson, Wayne J.; Bell, Ian M.
 PA Merck and Co., Inc., USA
 SO U.S., 57 pp., Cont.-in-part of U. S. Ser. No. 229,276, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5760054	A	19980602	US 1996-722001	19961001
	WO 9528397	A1	19951026	WO 1995-US4590	19950413
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
PRAI	US 1994-229276		19940413		
	WO 1995-US4590		19950413		

GI



AB The invention relates to the claimed title compds. I [$n = 3-5$; $B = C$ or N ;
 $R_1, R_2, R_3, R_4 = H, \text{halo}, NO_2, NH_2, (\text{un})\text{substituted alkyl, alkoxy, aryl, heteroaryl, etc.}; R_5, R_6, R_7, R_8 = H, \text{alkyl, alkenyl, alkoxy}; Z = O, S, CH_2, NH, NMe]$ and analogs. Also disclosed are the synthesis and use of the compds. as selective .alpha.1C-adrenergic receptor antagonists. The primary application of the compds. is in the treatment of benign prostatic hypertrophy (BPH). The compds. selectively relax smooth muscle tissue

enriched in the .alpha.1C receptor subtype without inducing orthostatic hypotension. The compds. provide acute relief of BPH by permitting less hindered urine flow. I and analogs are also useful in combination with human 5.alpha.-reductase inhibitors, providing both acute and chronic relief from the effects of BPH. Approx. 130 specific invention compds. are disclosed. The cloning and use of a cDNA for a human .alpha.1C adrenoceptor in an in vitro assay is described. For instance,

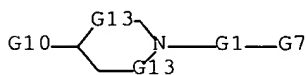
alkylation

of 1-(4-piperidiny1)-3-benzoxazolin-2-one.HCl (prepd. in 4 steps) with 2-(4-bromobutyl)-1,1-dioxido-1,2-benzisothiazol-3(2H)-one in the

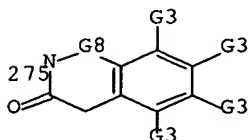
presence

of (i-Pr)2NEt in DMF gave 40% title compd. II. Selected compds. showed nanomolar or subnanomolar affinity for human .alpha.1C receptor subtype while showing 30-fold lower affinity for human .alpha.1A and .alpha.1B subtypes (no data).

MSTR 2C



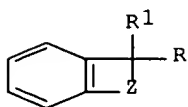
G1 = (3-5) CH2
G7 = 275



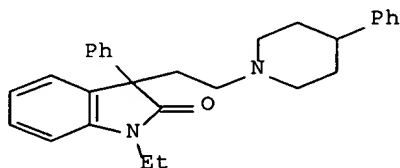
G8 = SO2
DER: and pharmaceutically acceptable salts, prodrugs, polymorphs, or metabolites
MPL: disclosure

L10 ANSWER 9 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 128:140729 MARPAT
 TI Preparation of 3-[2-(4-arylazino)ethyl]-2-indolones and analogs as
 antiincontinence agents
 IN Kato, Kaneyoshi; Doi, Takayuki; Sugiura, Yoshihiro; Kawada, Mitsuru
 PA Takeda Chemical Industries, Ltd., Japan; Kato, Kaneyoshi; Doi, Takayuki;
 Sugiura, Yoshihiro; Kawada, Mitsuru
 SO PCT Int. Appl., 185 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9802432	A1	19980122	WO 1997-JP2447	19970715
	W:	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9734607	A1	19980209	AU 1997-34607	19970715
	JP 10338672	A2	19981222	JP 1997-188831	19970715
PRAI	JP 1996-186025		19960716		
	JP 1997-87980		19970407		
	WO 1997-JP2447		19970715		
GI					



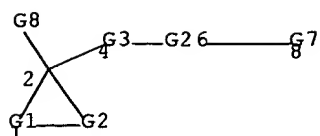
I



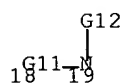
I

AB Title compds. [(ring-substituted) I; R = (CH₂)_mZ₁Z₂R₂; R₁, R₂ = (un)substituted aryl; Z = atoms to complete a (heterocyclic) ring; Z₁ = (un)substituted N-attached heterocyclylene; Z₂ = bond or (oxo)alkylene; m = 1-3] were prepd. Thus, PhCH₂CO₂Et was arylated by 4-FC₆H₄NO₂ and the cyclized product converted in 3 steps to title compd. II. Data for biol. activity of I were given.

MSTR 1

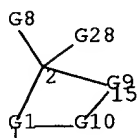


G1 = o-C₆H₄ (SO G20)
 G9 = (0-2) CH₂
 G10 = 18-1 19-15

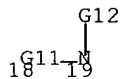


G11 = SO₂
 G12 = alkyl<(1-6)> (SO (1-5) G21)
 G21 = phthalimido
 DER: or salts
 MPL: claim 1

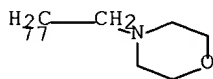
MSTR 2



G1 = o-C₆H₄ (SO G20)
 G9 = (0-2) CH₂
 G10 = 18-1 19-15



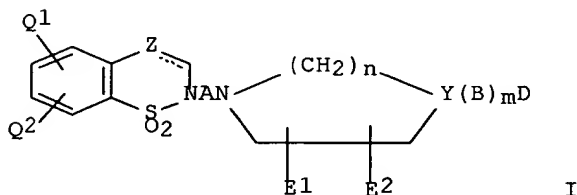
G11 = SO₂
 G12 = 77



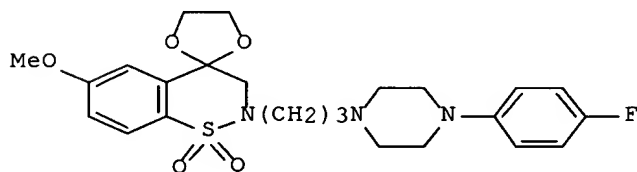
DER: or salts
 MPL: claim 21

L10 ANSWER 10 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 126:144283 MARPAT
 TI Preparation of benzothiazine derivatives as serotonin-2-receptor antagonists
 IN Mizuno, Akira; Shibata, Makoto; Iwamori, Tomoe; Inomata, Norio
 PA Suntory Limited, Japan
 SO Eur. Pat. Appl., 62 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 749967	A1	19961227	EP 1996-110050	19960621
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 09012562	A2	19970114	JP 1995-177976	19950622
	CA 2179679	AA	19961223	CA 1996-2179679	19960621
PRAI	JP 1995-177976		19950622		
GI					



I



II

AB The title compds. [I; Z = C(O), CH₂, CH, etc.; Q₁ = H, OH, halo, etc.;
 Q₂ = OH, halo, alkyl, etc.; A = (un)substituted alkylene, alkenylene,
 alkynylene; Y = CH, C, N; m = 0, 1; n = 1-3; B = O, S, C(O), etc.; E₁,
 E₂ = H, lower alkyl; D = an arom. hydrocarbon group or an arom.

heterocyclic

group], having strong serotonin-2 blocking action, excellent selectivity to this action against .alpha.1 blocking action, high safety, and therefore useful as therapeutics for various circulatory diseases such

as

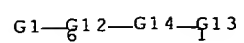
ischemic heart diseases, cerebrovascular disturbances and peripheral circulatory disturbances, were prepd. Thus, reaction of 2-(3-chloropropyl)-6-methoxy-3,4-dihydro-2H-1,2-benzothiazin-4-one 1,1-dioxide ethylene acetal with 1-(4-fluorophenyl)piperazine in the presence of NaHCO₃, NaI in MeCN afforded 93% II which showed 63.0% and 62.3% (of the control) contractions of the superior mesenteric artery

and

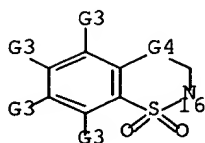
thoracic aorta of Hartley male guinea pig, resp., at 10⁻⁷ M as

anti-serotonin and anti-.alpha.1 action.

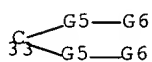
MSTR 1



G1 = 16

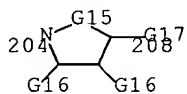


G4 = 33



G12 = alkenylene (SO)

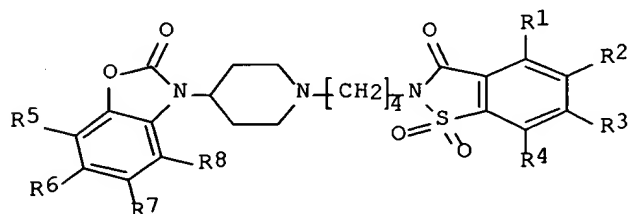
G14 = 204-6 208-1



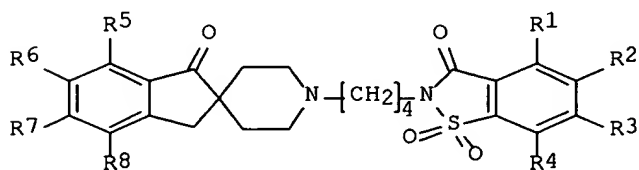
DER: or salts
MPL: claim 1
NTE: substitution is restricted
STE: or isomers

L10 ANSWER 11 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 124:176079 MARPAT
 TI Preparation of heterocycles as .alpha.1c adrenergic receptor antagonists
 IN Huff, Joel R.; Lee, Hee-Yoon; Nerenberg, Jennie B.; Thompson, Wayne J.
 PA Merck and Co., Inc., USA
 SO PCT Int. Appl., 209 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9528397	A1	19951026	WO 1995-US4590	19950413
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2187767	AA	19951026	CA 1995-2187767	19950413
	AU 9523566	A1	19951110	AU 1995-23566	19950413
	AU 688498	B2	19980312		
	EP 755392	A1	19970129	EP 1995-917565	19950413
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 09512016	T2	19971202	JP 1995-527097	19950413
	US 5760054	A	19980602	US 1996-722001	19961001
PRAI	US 1994-229276		19940414		
	WO 1995-US4590		19950413		
GI					



I



II

AB Title compds. such as I (R1, R2, R3, R4 = H, NO2, NH2, etc.; R5, R6, R7, R8 = H, alkyl, alkenyl, alkoxy, etc.) and II, effective testosterone reductase inhibitors useful in treatment of benign prostatic hyperplasia, were prepd. Alkylation of 1-(4-piperidinyl)-3-benzoxazolin-2-one.HCl

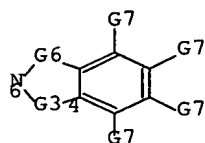
with

2-(4-bromobutyl)-1,1-dioxo-1,2-benzothiazol-3(2H)-one in the presence of (i-Pr)₂NEt in DMF afforded 40% I (R₁-R₈ = H). Title compds. are effective at 0.001 mg/kg - 7 mg/kg per day in humans.

MSTR 1

G30-G1—G2

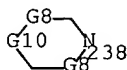
G1 = (3-5) CH₂
G2 = 6



G3 = 13-6 14-4

13(0)14

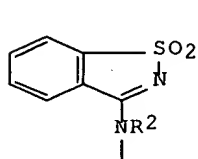
G4 = CH₂
G6 = SO₂
G30 = 238



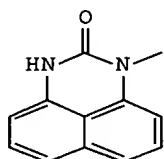
DER: and pharmaceutically acceptable salts, prodrugs, polymorphs, or metabolites
MPL: claim 1

L10 ANSWER 12 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 118:219850 MARPAT
 TI Preparation of serotoninergic antagonists for pharmaceuticals
 IN Damour, Dominique; Labaudiniere, Richard; Malleron, Jean Luc; Mignani, Serge
 PA Rhone-Poulenc Rorer SA, Fr.
 SO Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DT Patent
 LA French
 FAN.CNT 1

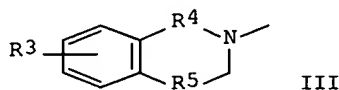
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 511073	A1	19921028	EP 1992-401109	19920421
	R: PT				
	FR 2675802	A1	19921030	FR 1991-5170	19910426
	FR 2675802	B1	19931224		
	CA 2103562	AA	19921027	CA 1992-2103562	19920421
	WO 9219624	A1	19921112	WO 1992-FR354	19920421
	W: CA, FI, JP, NO, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	EP 583322	A1	19940223	EP 1992-909776	19920421
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 06507162	T2	19940811	JP 1992-509239	19920421
	NO 9303121	A	19930901	NO 1993-3121	19930901
	US 5563144	A	19961008	US 1995-470726	19950606
PRAI	FR 1991-5170		19910426		
	WO 1992-FR354		19920421		
	US 1993-137091		19931026		
GI					



I



II

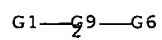


III

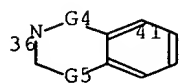
AB R1(CH2)n-Het (where R1 = I, II, III; n = 1-4; Het = e.g., 4-phenyl-1,2,3,6-tetrahydro-1-pyridyl; R2 = H, Ph; R3 = H, halo, heterocycle; R4 = CO, SO2; R5 = SiMe2, CMe2) are prepd. for use in treatment of diseases involving serotonin. Thus, 3-(3-chloropropyl)-

1,1-dimethyl-5-fluoro-4-oxo-1,2,3,4-tetrahydro-3,1-benzazasiline was treated with 1-phenylpiperazine in the presence of Et3N in toluene soln. to give 1,1-dimethyl-5-fluoro-4-oxo-3-[3-(4-phenyl-1-piperazinyl)propyl]-1,2,3,4-tetrahydro-3,1-benzazasiline. Tablets contg. 50 mg of this compd. were prepd.

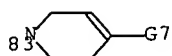
MSTR 1



G3 = 36-2 41-34



G4 = SO₂
 G5 = CMe₂
 G6 = 83



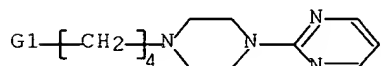
G9 = (1-4) CH₂
 DER: and mineral or organic acid salts
 MPL: claim 1
 NTE: substitution is restricted

L10 ANSWER 13 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 115:239772 MARPAT
 TI Pharmaceutical compositions containing [4-(2-pyrimidinyl)-1-piperazinyl]butyl derivatives for treatment of intestinal motility disorders
 IN Croci, Tiziano; Bianchetti, Alberto; Manara, Luciano
 PA Midy S.p.A., Italy
 SO Fr. Demande, 12 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 1

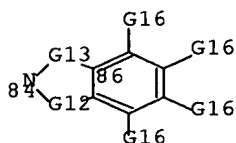
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2654934	A1	19910531	FR 1989-15734	19891129
	FR 2654934	B1	19940930		

 AB Pharmaceutical compns. contg. the title derivs. (Markush included) are provided for treatment of intestinal motility disorders, esp. constipation. Tablet formulations of buspirone-HCl and of gepirone-HCl and a dragee formulation of buspirone-HCl are included.
 Anticonstipation
 activity was tested in rats.

MSTR 1



G1 = 84



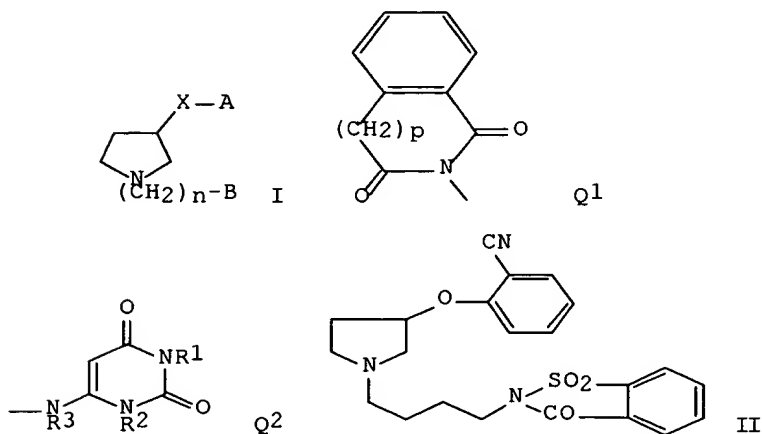
G12 = SO2
 G13 = 91-84 92-86 / 92-84 91-86

99105914

G14 = CH2
 DER: and pharmaceutically acceptable salts
 MPL: claim 1

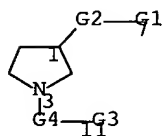
L10 ANSWER 14 OF 14 MARPAT COPYRIGHT 2002 ACS
 AN 112:235290 MARPAT
 TI Preparation of 1,3-disubstituted pyrrolidines as serotonin (partial)
 agonists and antagonists
 IN Schohe, Rudolf; Seidel, Peter Rudolf; Traber, Jorg; Glaser, Thomas
 PA Bayer A.-G., Fed. Rep. Ger.
 SO Eur. Pat. Appl., 50 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 338331	A1	19891025	EP 1989-106023	19890406
	EP 338331	B1	19921021		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
	DE 3835291	A1	19891102	DE 1988-3835291	19881015
	AT 81652	E	19921115	AT 1989-106023	19890406
	ES 2045229	T3	19940116	ES 1989-106023	19890406
	US 5037841	A	19910806	US 1989-336977	19890412
	AU 8933059	A1	19891026	AU 1989-33059	19890414
	AU 625817	B2	19920716		
	IL 89973	A1	19930131	IL 1989-89973	19890417
	DK 8901864	A	19891020	DK 1989-1864	19890418
	JP 01311059	A2	19891215	JP 1989-96549	19890418
	ZA 8902823	A	19891227	ZA 1989-2823	19890418
	US 5274097	A	19931228	US 1991-682785	19910409
	US 5453437	A	19950926	US 1993-118376	19930908
PRAI	DE 1988-3812989		19880419		
	DE 1988-3835291		19881015		
	EP 1989-106023		19890406		
	US 1989-336927		19890412		
	US 1989-336977		19890412		
	US 1991-682785		19910409		
OS	CASREACT 112:235290				
GI					

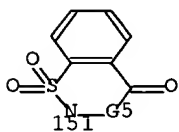


AB The title compds. [I; A = (fused) heteroaryl; B = cyano, CO₂R₁, CONR₂R₃, SO₂NR₂R₃, SOmR₄, NR₅R₆, C.tplbond.CCH₂NR₅R₆; X = OCH₂, CH₂O, O; R₁ = H, C1-12 alkyl, C5-8 cycloalkyl, C2-12 alkenyl, aryl, aralkyl; R₂, R₃ = H, C1-17 alkyl, (un)substituted aryl, etc.; R₅, R₆ = COR₂, SO₂R₈, any of definitions for R₂, R₃; R₇ = NHR₉, C1-12 alkyl, C1-17 alkoxy, etc.; R₈ = C5-8 cycloalkyl, (un)substituted C1-12 alkyl, (un)substituted (hetero)aryl, NR₂R₃; R₉ = H, C5-8 cycloalkyl, (un)substituted C1-12 alkyl, aralkyl, (hetero)aryl, etc.; NR₅R₆ can form a (fused) heterocyclic ring, e.g., Q₁, Q₂, etc.; n = 1-10; n = 0-2] and their salts were prep'd. as 5-hydroxytryptamine agonists, partial agonists (no data), and antagonists, useful for treatment of serotonergic system-related CNS diseases. A mixt. of 3-(2-cyanophenoxy)pyrrolidine, 2-(4-bromobutyl)benzothiazol-3(2H)-one-1,1-dioxide, and Et₃N in DMF was stirred 20 h at 45.degree. to give II which was converted to its oxalate. The latter in vitro antagonized serotonin with an inhibition const. K_i = 2 nM.

MSTR 1D



G3 = 151



G4 = alkylene<EC (1-10) C, DC (0) M3>
 G5 = (0-2) CH₂
 DER: and salts
 MPL: claim 1

L15 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS

AN 2000:395926 CAPLUS

DN 133:129514

TI 2H-Thieno[3,2-e]- and [2,3-e]-1,2-thiazine-6-sulfonamide 1,1-dioxides as ocular hypotensive agents: synthesis, carbonic anhydrase inhibition and evaluation in the rabbit

AU Chen, H.-H.; Gross, S.; Liao, J.; McLaughlin, M.; Dean, T.; Sly, W. S.; May, J. A.

CS Ophthalmic Products Research, Alcon Research, Ltd., Fort Worth, TX, 76134, USA

SO Bioorganic & Medicinal Chemistry (2000), 8(5), 957-975

CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Science Ltd.

DT Journal

LA English

AB Novel non-chiral 2H-thieno[3,2-e]- and [2,3-e]-1,2-thiazine-6-sulfonamide

1,1-dioxides were synthesized for evaluation as potential candidates for the treatment of glaucoma. All of the compds. prepd. were potent high affinity inhibitors of human carbonic anhydrase II, $K_i < 0.5$ nM. Addnl., inhibition of recombinant human carbonic anhydrase IV was detd. for selected compds.; these were shown to be moderate to potent inhibitors

of

this isoenzyme with IC_{50} values ranging from 4.25 to 73.6 nM. Of the compds. evaluated for their ability to lower intraocular pressure in naturally hypertensive Dutch-belted rabbits, several showed significant efficacy ($>20\%$ decrease) in this model following topical ocular administration.

IT 171272-69-8P 171272-77-8P 171272-87-0P

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological

study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

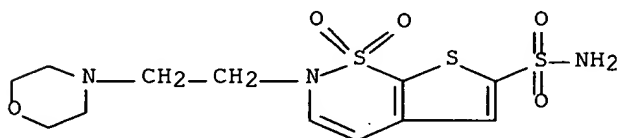
(thieno and thiazine sulfonamide dioxides as ocular hypotensive agents:

synthesis and carbonic anhydrase inhibition)

RN 171272-69-8 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[2-(4-morpholinyl)ethyl]-

1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



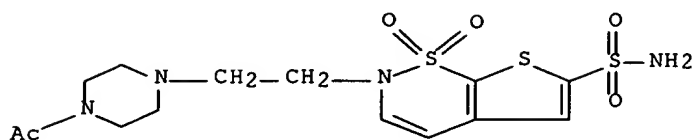
● HCl

RN 171272-77-8 CAPLUS

CN Piperazine, 1-acetyl-4-[2-[6-(aminosulfonyl)-1,1-dioxido-2H-thieno[3,2-

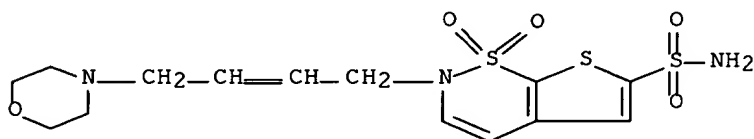
e]-

1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)



RN 171272-87-0 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



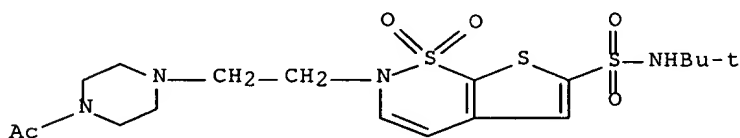
● HCl

IT 171273-55-5P 171273-66-8P 286958-36-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent) (thieno and thiazine sulfonamide dioxides as
ocular hypotensive agents: synthesis and carbonic anhydrase inhibition)

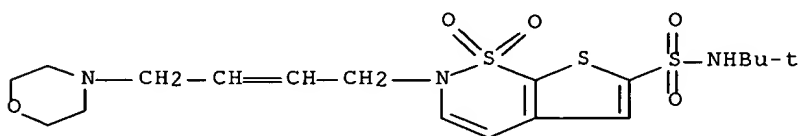
RN 171273-55-5 CAPLUS

CN Piperazine, 1-acetyl-4-[2-[6-[[1,1-dimethylethyl]amino]sulfonyl]-1,1-dioxido-2H-thieno[3,2-e]-1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)



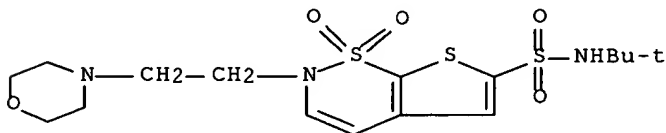
RN 171273-66-8 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 286958-36-9 CAPLUS

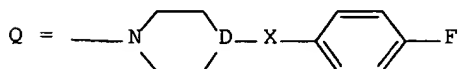
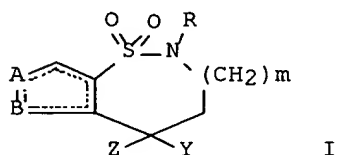
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1999:449035 CAPLUS
 DN 131:116257
 TI Preparation of pyrrole sulfonamide derivatives as serotonin-2 receptor antagonists
 IN Mizuno, Akira; Shibata, Makoto; Iwamori, Chie; Fukami, Harukazu; Inomata, Norio
 PA Suntory, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 31 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11193289	A2	19990721	JP 1997-366756	19971226
	WO 9933840	A2	19990708	WO 1998-JP5954	19981225
	WO 9933840	A3	19990910		
	W: AU, CA, CN, HU, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9916906	A1	19990719	AU 1999-16906	19981225
	EP 970088	A2	20000112	EP 1998-961598	19981225
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6271223	B1	20010807	US 1999-367841	19990826
	US 2002040017	A1	20020404	US 2001-871655	20010604
PRAI	JP 1997-366756	A	19971226		
	WO 1998-JP5954	W	19981225		
	US 1999-367841	A3	19990826		
OS	MARPAT 131:116257				
GI					



AB Title compds. [I; A = CH, NMe; B = NMe, CH; dotted bonds = single, double; m = 0, 1; D = CH, N; X = bond, CO; Y-Z = :O, :NOH; Y = H; Z = OH; R = CH₂CH₂CH₂Q] and their salts are prepd. as serotonin 2 receptor antagonists on treatment of circulatory system disease with low side effect. Thus, the title compd. I (A = CH; B = NMe; m = 1; D = N; Y-Z = :O; X = bond; dotted bonds were single and double related to B) was prepd. and tested for anti-5-HT and anti- α .1 actions in guinea pig.

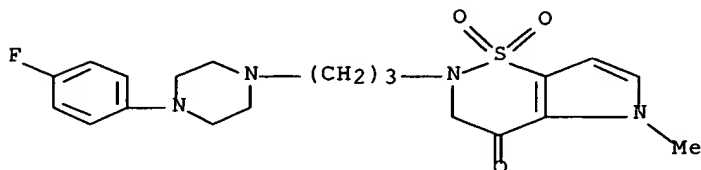
IT **232619-90-8P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (prepn. of pyrrolothiazinones and

pyrrolothiazepinones as serotonin-2 receptor antagonists)

RN 232619-90-8 CAPLUS

CN Pyrrolo[2,3-e]-1,2-thiazin-4(5H)-one, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-5-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)

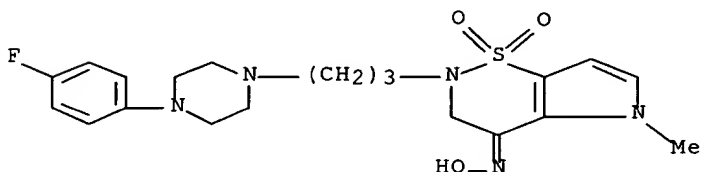


IT 232619-94-2P 232619-95-3P 232619-98-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of pyrrolothiazinones and pyrrolothiazepinones as serotonin-2 receptor antagonists)

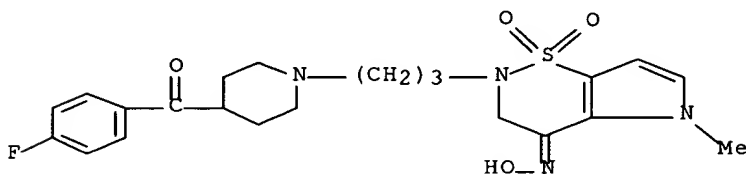
RN 232619-94-2 CAPLUS

CN Pyrrolo[2,3-e]-1,2-thiazin-4(5H)-one, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3-dihydro-5-methyl-, oxime, 1,1-dioxide (9CI) (CA INDEX NAME)



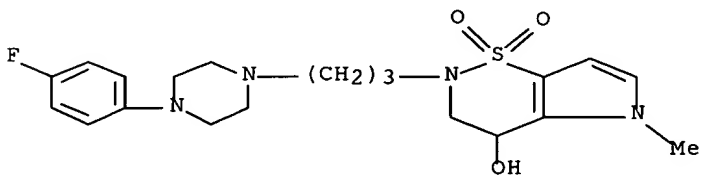
RN 232619-95-3 CAPLUS

CN Pyrrolo[2,3-e]-1,2-thiazin-4(5H)-one, 2-[3-[4-(4-fluorobenzoyl)-1-piperidiny]propyl]-2,3-dihydro-5-methyl-, 4-oxime, 1,1-dioxide (9CI) (CA INDEX NAME)



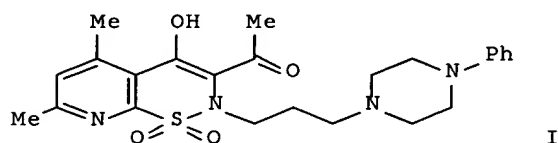
RN 232619-98-6 CAPLUS

CN Pyrrolo[2,3-e]-1,2-thiazin-4-ol, 2-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,3,4,5-tetrahydro-5-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



L15 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:257352 CAPLUS
 DN 126:238385
 TI Preparation of novel pyrido[3,2-e]-1,2-thiazine derivative as
 psychotropic
 agent
 IN Malinka, Wieslaw; Kleinrok, Zdzislaw; Sieklucka, Maria
 PA Akademia Medyczna, Pol.
 SO Pol., 3 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 170394	B1	19961231	PL 1993-299530	19930701
GI					



AB The title compd. I, useful as psychotropic agent, was prepd. in 56%
 yield
 by reaction of 2H-3-acetyl-4-hydroxy-5,7-dimethylpyrido[3,2-e]-1,2-
 thiazine 1,1-dioxide with 1-chloro-3-(4-phenyl-1-piperazinyl)propane in
 the presence of NaOEt in EtOH. Compd. I showed LD50 of 1753.9 mg/kg,
 and,

e.g., decreased spontaneous mobility in mice at 1/80 LD50.

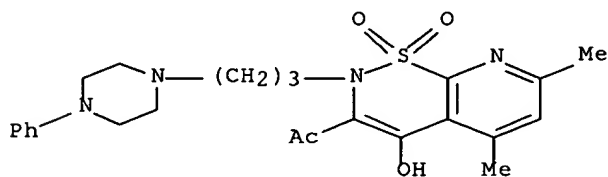
IT **164357-31-7P**

RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic
 use);

BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of novel pyrido[3,2-e]-1,2-thiazine deriv. as psychotropic
 agent)

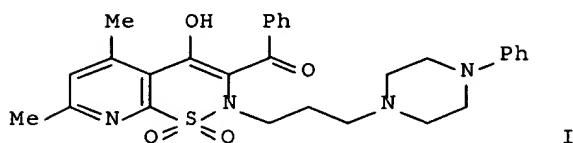
RN 164357-31-7 CAPLUS

CN Ethanone, 1-[4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-(4-phenyl-1-
 piperazinyl)propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]- (9CI) (CA INDEX
 NAME)



L15 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:257351 CAPLUS
 DN 126:238384
 TI Preparation of novel pyrido[3,2-e]-1,2-thiazine as psychotropic agent
 IN Malinka, Wieslaw; Kleinrok, Zdzislaw; Sieklucka, Maria
 PA Akademia Medyczna, Pol.
 SO Pol., 4 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 FAN.CNT 1

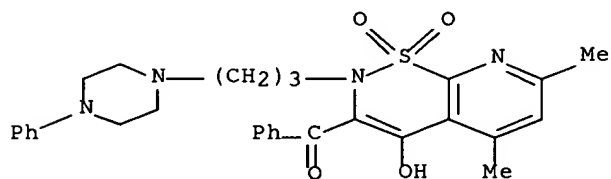
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 170371	B1	19961231	PL 1993-299532	19930701
GI					



AB The title compd. I, useful as psychotropic agent, was prepd. in 60% yield
 by reaction of 2H-3-benzoyl-4-hydroxy-5,7-dimethylpyrido[3,2-e]-1,2-thiazine 1,1-dioxide with 1-chloro-3-(4-phenyl-1-piperazinyl)propane in the presence of NaOEt in EtOH. Compd. I showed LD50 of > 2000 mg/kg, and, e.g., decreased spontaneous mobility in mice and rats at 1/40 LD50.

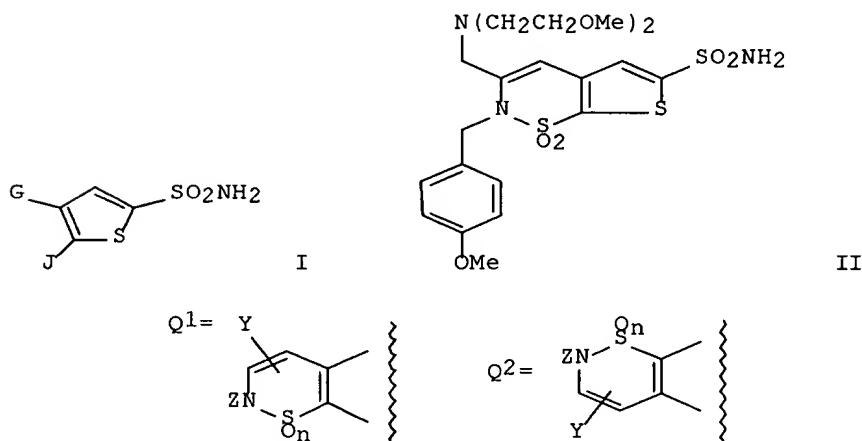
IT **164357-32-8P**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of novel pyrido[3,2-e]-1,2-thiazine as psychotropic agent)

RN 164357-32-8 CAPLUS
 CN Methanone, [4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-(4-phenyl-1-piperazinyl)propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1996:486144 CAPLUS
 DN 125:167999
 TI Preparation of thienothiazinesulfonamides as carbonic anhydrase inhibitors.
 IN May, Jesse A.; Chen, Hwang-hsing; Dupr, E. Brian; Dean, Thomas R.
 PA Alcon Laboratories, Inc., USA
 SO U.S., 33 pp., Cont.-in-part of U.S. Ser. No. 184,430, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5538966	A	19960723	US 1995-374470	19950120
	WO 9622099	A1	19960725	WO 1995-US9144	19950720
	W: AU, CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9531370	A1	19960807	AU 1995-31370	19950720
PRAI	US 1994-184430		19940121		
	US 1995-374470		19950120		
	WO 1995-US9144		19950720		
OS	MARPAT 125:167999				
GI					



AB Title compds. [I; G, J and the C atoms they are connected to = Q1, Q2; Y
 =
 H, (substituted) alkyl, alkenyl, alkynyl; Z = carboxymethyl,
 cyanomethyl,
 aminocarbonylmethyl, (substituted) alkyl, alkenyl, alkynyl, Ph, etc.; n
 =
 0-2], were prepd. for treatment of glaucoma (no data). Thus,
 N-[[3-(1,3-dioxolan-2-yl)-2-thienyl]sulfonyl]-N-(4-
 methoxyphenylmethyl)glycine Et ester (prepn. given) was refluxed 3 h
 with
 p-toluenesulfonic acid in acetone to give Et 2-(4-methoxyphenylmethyl)-

2H-

thieno[3,2-e]-1,2-thiazine-3-carboxylate 1,1-dioxide, which was converted to title compd. (II) in several steps. I drug formulations are given.

IT 171272-69-8P 171272-70-1P 171272-77-8P

171272-87-0P 180527-18-8P 180527-28-0P

180527-41-7P

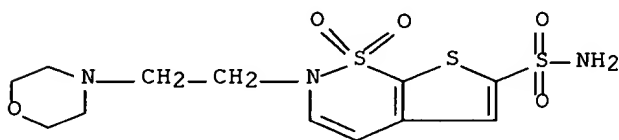
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of thienothiazinesulfonamides as carbonic anhydrase inhibitors)

RN 171272-69-8 CAPLUS

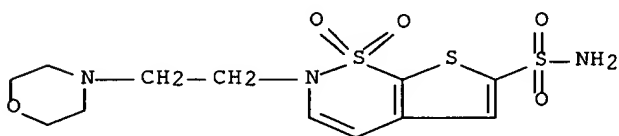
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[2-(4-morpholinyl)ethyl]-1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

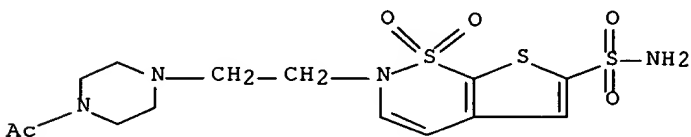
RN 171272-70-1 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[2-(4-morpholinyl)ethyl]-1,1-dioxide (9CI) (CA INDEX NAME)

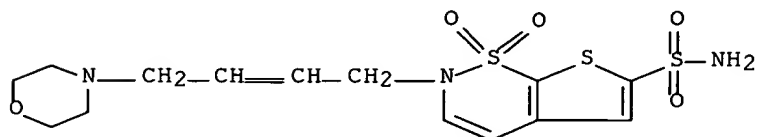


RN 171272-77-8 CAPLUS

CN Piperazine, 1-acetyl-4-[2-[6-(aminosulfonyl)-1,1-dioxido-2H-thieno[3,2-e]-1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)

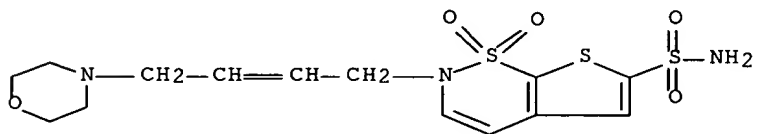


RN 171272-87-0 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)

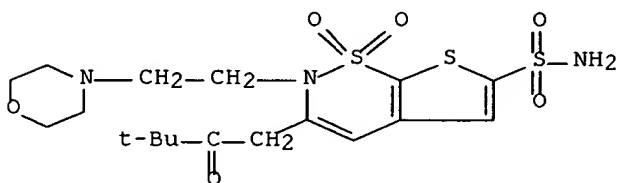


● HCl

RN 180527-18-8 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

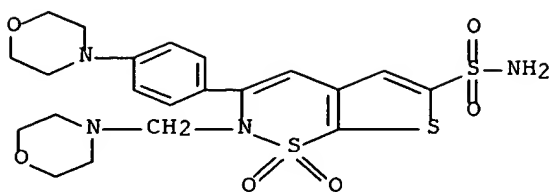


RN 180527-28-0 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-(3,3-dimethyl-2-oxobutyl)-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 180527-41-7 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-(4-morpholinylmethyl)-3-[4-(4-morpholinyl)phenyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IT 171273-45-3P 171273-55-5P 171273-65-7P
171273-66-8P 171273-87-3P 171273-88-4P
180527-43-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

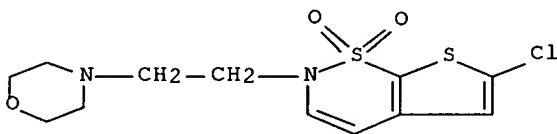
RACT

(Reactant or reagent)

(prepn. of thienothiazinesulfonamides as carbonic anhydrase inhibitors)

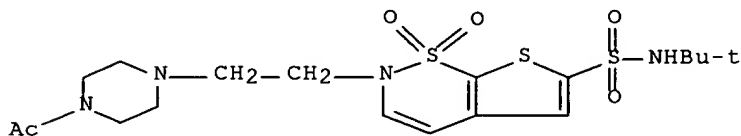
RN 171273-45-3 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine, 6-chloro-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 171273-55-5 CAPLUS

CN Piperazine, 1-acetyl-4-[2-[6-[[[(1,1-dimethylethyl)amino]sulfonyl]-1,1-dioxido-2H-thieno[3,2-e]-1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)

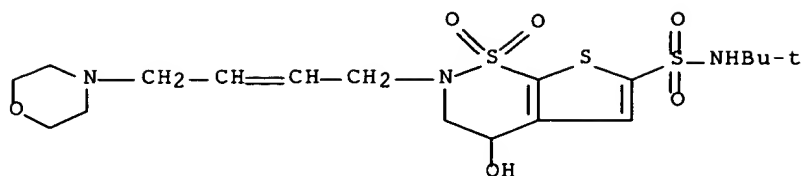


RN 171273-65-7 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-3,4-dihydro-4-hydroxy-2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide (9CI)

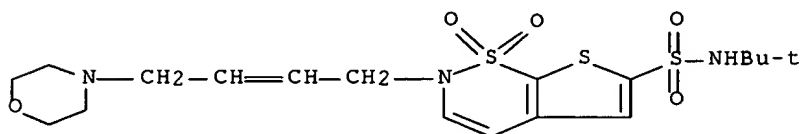
(CA

INDEX NAME)



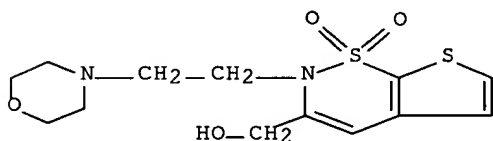
RN 171273-66-8 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



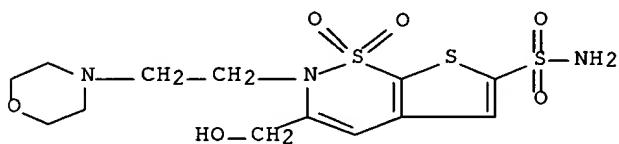
RN 171273-87-3 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-3-methanol, 2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



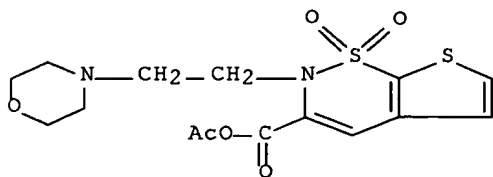
RN 171273-88-4 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-(hydroxymethyl)-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



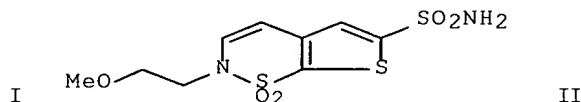
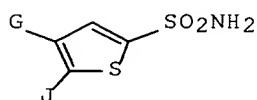
RN 180527-43-9 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-3-carboxylic acid, 2-[2-(4-morpholinyl)ethyl]-, anhydride with acetic acid, 1,1-dioxide (9CI) (CA INDEX NAME)



L15 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:975365 CAPLUS
 DN 124:8833
 TI Preparation and formulation of thienothiazinesulfonamides as carbonic anhydrase inhibitors
 IN May, Jesse Albert; Chen, Hwang-Hsing; Dupre, Brian; Dean, Thomas R.
 PA Alcon Laboratories, Inc., USA
 SO PCT Int. Appl., 116 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9519981	A1	19950727	WO 1995-US775	19950120
	W: AU, CA, JP, MX				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9516848	A1	19950808	AU 1995-16848	19950120
PRAI	US 1994-184430		19940121		
	WO 1995-US775		19950120		
OS	MARPAT 124:8833				
GI					



AB Title compds. [I; GJ = (un)substituted CH:CHNRSON, -SONNRCH:CH; R = (un)substituted alk(en)yl, CH2CO2H, alkoxycarbonylmethyl, CH2CONH2, heteroaryl, etc.; n = 0-2] were prepd. as carbonic anhydrase inhibitors (no data). Thus, 3-acetyl-2-thiophenesulfonamide (prepn. given) was brominated and the product cyclized to give 3,4-dihydro-2H-thieno[3,2-e]-1,2-thiazin-4-ol 1,1-dioxide which was converted in 7 steps to title compd. II.

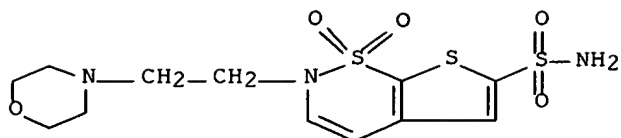
IT 171272-69-8P 171272-70-1P 171272-77-8P
 171272-87-0P 171272-88-1P 171273-00-0P
 171273-01-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of thienothiazinesulfonamides as carbonic anhydrase inhibitors)

RN 171272-69-8 CAPLUS

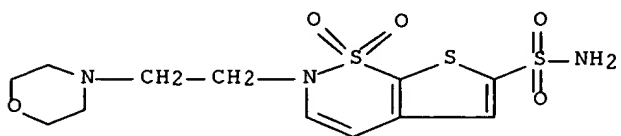
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[2-(4-morpholinyl)ethyl]-1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

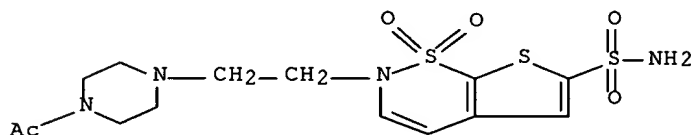
RN 171272-70-1 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[2-(4-morpholinyl)ethyl]-
,
1,1-dioxide (9CI) (CA INDEX NAME)



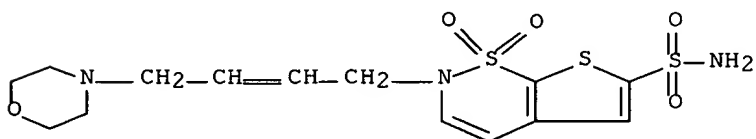
RN 171272-77-8 CAPLUS

CN Piperazine, 1-acetyl-4-[2-[6-(aminosulfonyl)-1,1-dioxido-2H-thieno[3,2-
e]-
1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)



RN 171272-87-0 CAPLUS

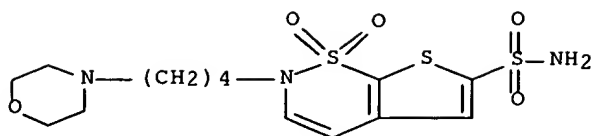
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[4-(4-morpholinyl)-2-
butenyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

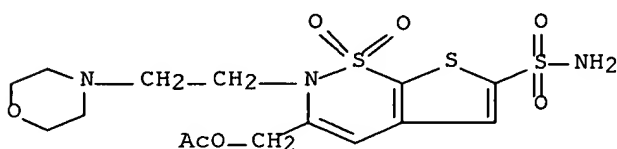
RN 171272-88-1 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 2-[4-(4-morpholinyl)butyl]-
,
1,1-dioxide (9CI) (CA INDEX NAME)



RN 171273-00-0 CAPLUS

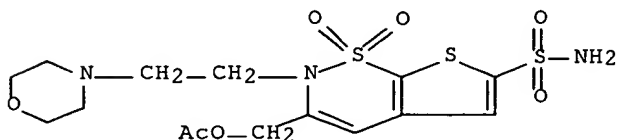
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-[(acetyloxy)methyl]-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 171273-01-1 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-[(acetyloxy)methyl]-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



IT 171273-45-3P 171273-55-5P 171273-65-7P
171273-66-8P 171273-86-2P 171273-87-3P
171273-88-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

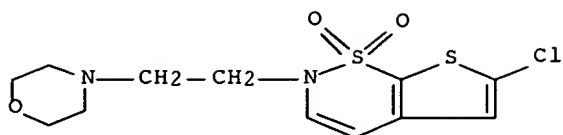
RACT

(Reactant or reagent)

(prepn. of thienothiazinesulfonamides as carbonic anhydrase inhibitors)

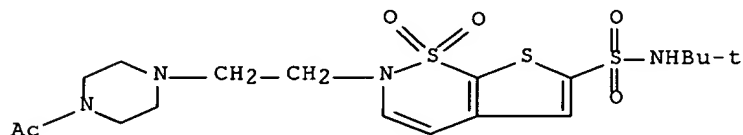
RN 171273-45-3 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine, 6-chloro-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 171273-55-5 CAPLUS

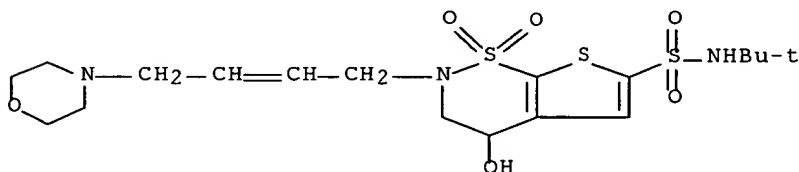
CN Piperazine, 1-acetyl-4-[2-[6-[[[(1,1-dimethylethyl)amino]sulfonyl]-1,1-dioxido-2H-thieno[3,2-e]-1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)



RN 171273-65-7 CAPLUS

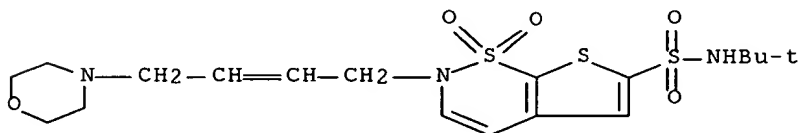
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-3,4-dihydro-4-hydroxy-2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide (9CI)

(CA
INDEX NAME)



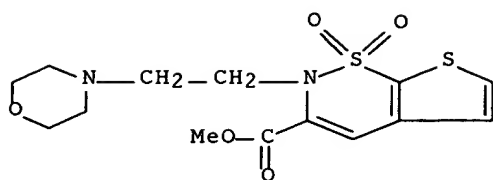
RN 171273-66-8 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, N-(1,1-dimethylethyl)-2-[4-(4-morpholinyl)-2-butenyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



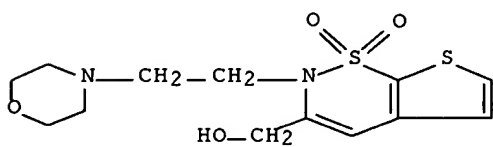
RN 171273-86-2 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-3-carboxylic acid, 2-[2-(4-morpholinyl)ethyl]-, methyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



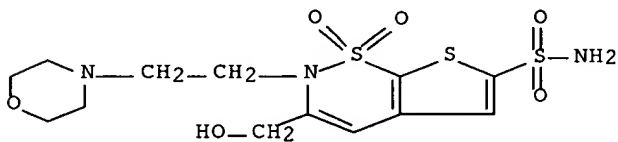
RN 171273-87-3 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-3-methanol, 2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

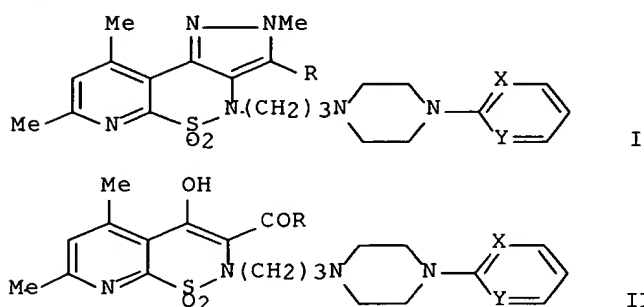


RN 171273-88-4 CAPLUS

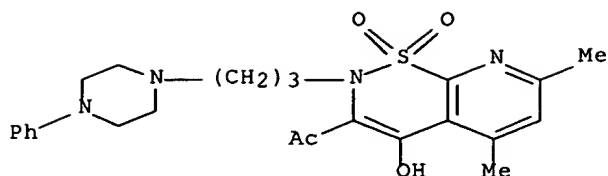
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3-(hydroxymethyl)-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L15 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:418701 CAPLUS
 DN 123:55786
 TI Studies on synthesis and biological properties of pyrazolo[4,3-c]pyrido[3,2-e]-1,2-thiazine 5,5-dioxide bearing 4-substituted-1-piperazinypropyl moiety
 AU Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Rajtar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw
 CS Dep. Drug Chem., Wroclaw Univ. Med., Wroclaw, 50-137, Pol.
 SO Farmaco (1994), 49(12), 783-92
 CODEN: FRMCE8
 DT Journal
 LA English
 GI



AB Pyrazolopyridothiazine 5,5-dioxides (I, R = Me, Ph; X = Y = CH, N; X = N, Y = CH) and pyridothiazine 1,1-dioxides (II, R = Me, Ph; X = Y = CH, N; X = N, Y = CH) bearing 1-piperazinypropyl substituents were synthesized. The acute toxicity and preliminary results on the CNS activity of I and II are described. A structure-activity relationship is discussed.
 IT **164357-31-7P**
 RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (synthesis and CNS activity of pyrazolopyridothiazine dioxides)
 RN 164357-31-7 CAPLUS
 CN Ethanone, 1-[4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-(4-phenyl-1-piperaziny)propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]- (9CI) (CA INDEX NAME)



IT **164357-32-8P**

RL: BAC (Biological activity or effector, except adverse); SPN

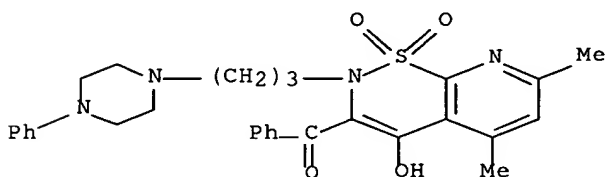
(Synthetic

preparation); BIOL (Biological study); PREP (Preparation)

(synthesis and CNS activity of pyrazolopyridothiazine dioxides)

RN 164357-32-8 CAPLUS

CN Methanone, [4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-(4-phenyl-1-piperazinyl)propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA INDEX NAME)



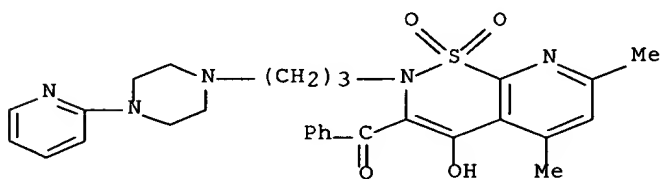
IT **164357-39-5P 164357-40-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis and CNS activity of pyrazolopyridothiazine dioxides)

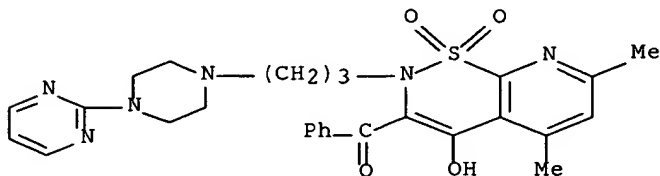
RN 164357-39-5 CAPLUS

CN Methanone, [4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-[4-(2-pyridinyl)-1-piperazinyl]propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA INDEX NAME)

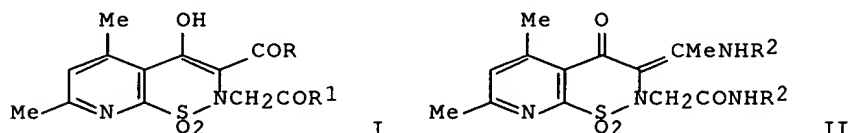


RN 164357-40-8 CAPLUS

CN Methanone, [4-hydroxy-5,7-dimethyl-1,1-dioxido-2-[3-[4-(2-pyrimidinyl)-1-piperazinyl]propyl]-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA INDEX NAME)

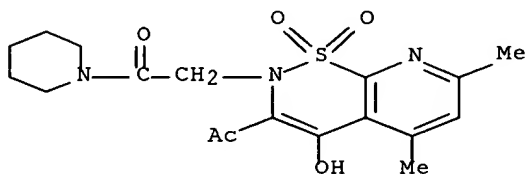


L15 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1994:534056 CAPLUS
 DN 121:134056
 TI Synthesis of some amides of 4-hydroxy-5,7-dimethyl-2H-pyrido[3,2-e]-1,2-thiazine-2-acetic acid 1,1-dioxide
 AU Malinka, W.; Deren, A.
 CS Dep. Chem. Drugs, Sch. Med., Wroclaw, 50-137, Pol.
 SO Pol. J. Chem. (1992), 66(12), 1953-60
 CODEN: PJCHDQ; ISSN: 0137-5083
 DT Journal
 LA English
 GI

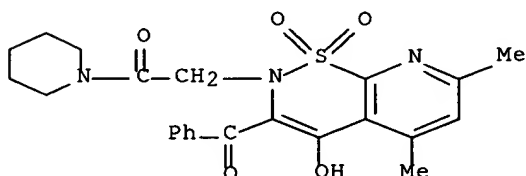


AB 3-Acetyl (benzoyl)-4-hydroxy-5,7-dimethyl-2H-pyrido[3,2-e]-1,2-thiazine-2-acetic acid 1,1-dioxides I (R = Me, Ph; R1 = OH) react on treatment with SOCl2 and alkylamine to yield the title amides I (R = Me, Ph; R1 = cyclohexylamino, piperidino, butylamino, allylamino) with potential antiinflammatory activity. In reaction of acid I (R = Me; R1 = OH) with primary n-alkylamines amido-enamines II (R2 = Bu, allyl, Me) were obtained unexpectedly.

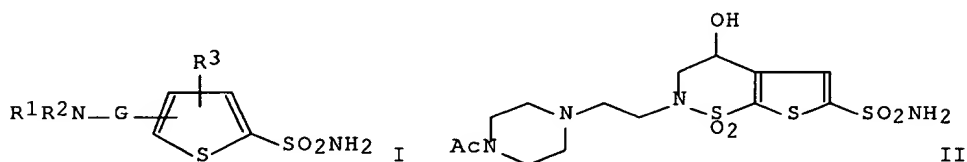
IT **157253-66-2P 157253-70-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 157253-66-2 CAPLUS
 CN Piperidine, 1-[(3-acetyl-4-hydroxy-5,7-dimethyl-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-2-yl)acetyl]- (9CI) (CA INDEX NAME)



RN 157253-70-8 CAPLUS
 CN Piperidine, 1-[(3-benzoyl-4-hydroxy-5,7-dimethyl-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-2-yl)acetyl]- (9CI) (CA INDEX NAME)



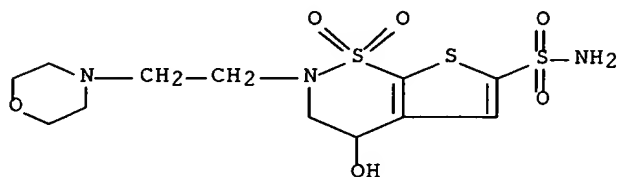
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5240923	A	19930831	US 1991-775313	19911009
	US 5153192	A	19921006	US 1990-618765	19901127
	US 5378703	A	19950103	US 1993-19011	19930218
	US 5679670	A	19971021	US 1994-357623	19941215
	US 5585377	A	19961217	US 1994-362716	19941223
PRAI	US 1990-506780	B2	19900409		
	US 1990-618765	A2	19901127		
	US 1990-506730	B2	19900409		
	US 1991-775313	A2	19911009		
	US 1993-19011	A3	19930218		
OS	MARPAT 120:245133				
GI					



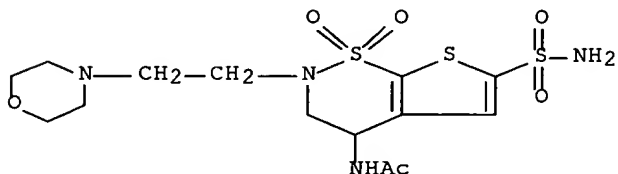
For example, 3,4-dihydro-4-hydroxy-2H-thieno[3,2-e]-1,2-thiazine 1,1-dioxide (prepn. given) underwent a sequence of O-protection, lithiation, introduction of a 6-(N-tert-butyl)sulfamoyl group, O-deprotection, N-alkylation of the thiazine nucleus with BrCH₂CH₂Br, further condensation of the bromoethyl group with 1-acetylpiperazine, and removal of the tert-Bu group, to give title compd. II, isolated as the maleate.

IT **138890-54-7P 154127-36-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for carbonic anhydrase inhibitors)

RN 138890-54-7 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-hydroxy-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



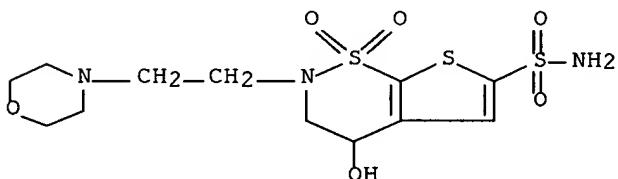
RN 154127-36-3 CAPLUS
 CN Acetamide, N-[6-(aminosulfonyl)-3,4-dihydro-2-[2-(4-morpholinyl)ethyl]-1,1-dioxido-2H-thieno[3,2-e]-1,2-thiazin-4-yl]- (9CI) (CA INDEX NAME)



IT 138890-72-9P 154127-10-3P 154127-11-4P
 154127-14-7P 154127-15-8P 154127-16-9P
 154127-17-0P

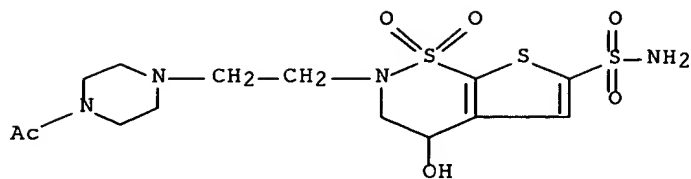
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, for lowering intraocular pressure)

RN 138890-72-9 CAPLUS
 CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-hydroxy-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 154127-10-3 CAPLUS
 CN Piperazine, 1-acetyl-4-[2-[6-(aminosulfonyl)-3,4-dihydro-4-hydroxy-1,1-dioxido-2H-thieno[3,2-e]-1,2-thiazin-2-yl]ethyl]- (9CI) (CA INDEX NAME)



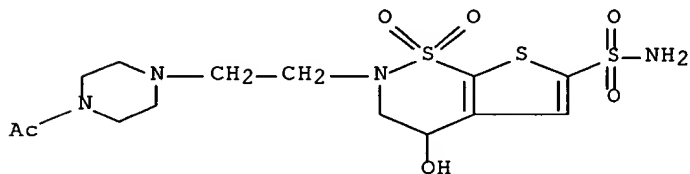
RN 154127-11-4 CAPLUS

CN Piperazine, 1-acetyl-4-[2-[6-(aminosulfonyl)-3,4-dihydro-4-hydroxy-1,1-dioxido-2H-thieno[3,2-e]-1,2-thiazin-2-yl]ethyl]-, (2Z)-2-butenedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 154127-10-3

CMF C14 H22 N4 O6 S3



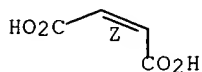
CM 2

CRN 110-16-7

CMF C4 H4 O4

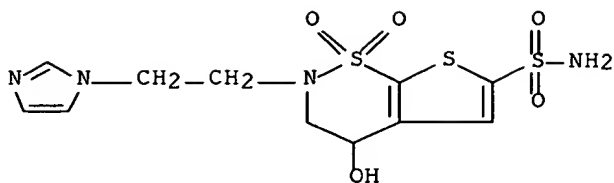
CDES 2:Z

Double bond geometry as shown.



RN 154127-14-7 CAPLUS

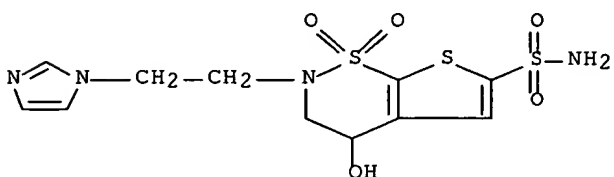
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-hydroxy-2-[2-(1H-imidazol-1-yl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 154127-15-8 CAPLUS

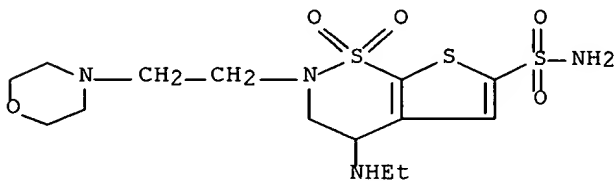
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-hydroxy-2-[2-(1H-imidazol-1-yl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 154127-16-9 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 4-(ethylamino)-3,4-dihydro-2-

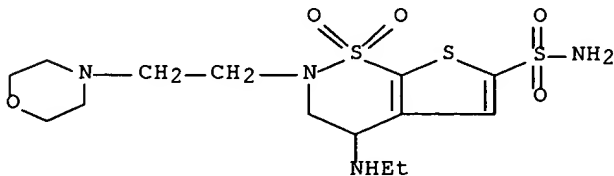
[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

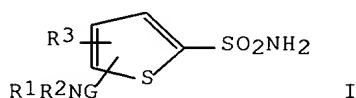
RN 154127-17-0 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 4-(ethylamino)-3,4-dihydro-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L15 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:433673 CAPLUS
 DN 117:33673
 TI Thiophene sulfonamides useful as carbonic anhydrase inhibitors for the treatment of glaucoma
 IN Dean, Thomas R.; Chen, Hwang Hsing; May, Jesse A.
 PA Alcon Laboratories, Inc., USA
 SO PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9115486	A1	19911017	WO 1991-US2262	19910403
	W: AU, BR, CA, FI, JP, KR, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5153192	A	19921006	US 1990-618765	19901127
	CA 2080223	AA	19911010	CA 1991-2080223	19910403
	AU 9177467	A1	19911030	AU 1991-77467	19910403
	AU 655924	B2	19950119		
	EP 527801	A1	19930224	EP 1991-908317	19910403
	EP 527801	B1	20020731		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	BR 9106330	A	19930420	BR 1991-6330	19910403
	JP 05508832	T2	19931209	JP 1991-508001	19910403
	JP 2562394	B2	19961211		
	ZA 9102580	A	19920129	ZA 1991-2580	19910408
	IL 97800	A1	19970814	IL 1991-97800	19910409
	NO 9203948	A	19921208	NO 1992-3948	19921009
	FI 9603424	A	19960902	FI 1996-3424	19960902
PRAI	US 1990-506730	A	19900409		
	US 1990-618765	A	19901127		
	WO 1991-US2262	A	19910403		
	FI 1992-4553	A	19921008		
OS	MARPAT 117:33673				
GI					

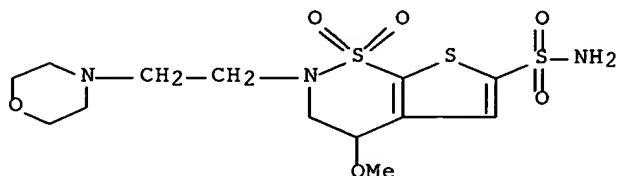


AB The title compds. [I; R1 = H, (un)substituted C1-4 alkyl; R2 = H, (un)substituted C1-8 alkyl, (un)substituted C3-7 alkynyl, Ph, heteroaryl, etc; R3 = H, halo, C1-4 alkyl, C1-8 alkoxy, C1-8 alkylthiol, etc; G = CO, SO2] and a pharmaceutically acceptable salt thereof are effective in lowering and controlling intraocular pressure. An ophthalmic suspension contained 3,4-dihydro-4-methoxy-2-methyl-2H-thieno[3,2-e]-1,2-thiazine-6-sulfonamide-1,1-dioxide (prepn. given) 3.0, hydroxypropyl Me cellulose 0.5, Na2HPO4 0.2, di-Na edetate 0.01, NaCl 0.8, benzalkonium chloride 0.01, polysorbate-80 0.1, NaOH/HCl q.s. to pH 7.02, and water to 100.00 %.

IT **138890-43-4 138890-54-7**
 RL: BIOL (Biological study)
 (ophthalmic preps. contg., for lowering intraocular pressure)

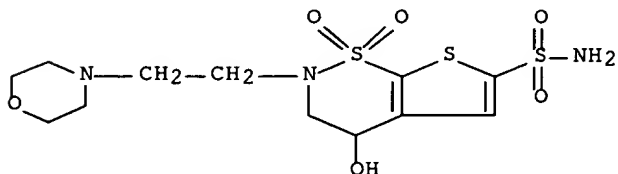
RN 138890-43-4 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-methoxy-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 138890-54-7 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-hydroxy-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

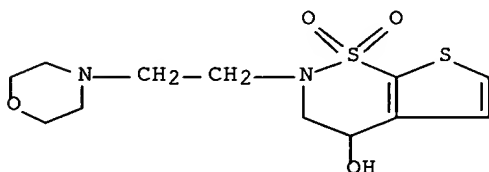


IT 138891-00-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, in prepn. of thiophene sulfonamide for
glaucoma treatment)

RN 138891-00-6 CAPLUS

CN 2H-Thieno[3,2-e]-1,2-thiazin-4-ol, 3,4-dihydro-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

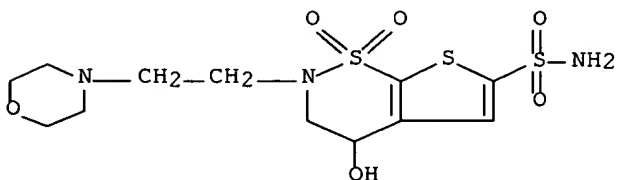


IT 138890-72-9P

RL: PREP (Preparation) (prepn. of, as intraocular pressure lowering
agent)

RN 138890-72-9 CAPLUS

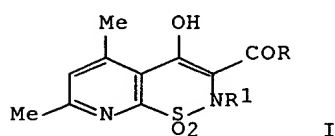
CN 2H-Thieno[3,2-e]-1,2-thiazine-6-sulfonamide, 3,4-dihydro-4-hydroxy-2-[2-(4-morpholinyl)ethyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L15 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1989:478013 CAPLUS
 DN 111:78013
 TI Preparation of 2-substituted derivatives of 2H-3-acyl-4-hydroxy-5,7-dimethylpyrido[3,2-e][1,2]thiazine 1,1-dioxides as analgesics
 IN Malinka, Wieslaw; Zawisza, Tadeusz; Wilimowski, Marian
 PA Akademia Medyczna Wroclaw, Pol.
 SO Pol., 3 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 143077	B2	19880130	PL 1986-257400	19860107
OS	CASREACT 111:78013; MARPAT 111:78013				
GI					



AB Title compds. I (R = Me, Ph; R1 = alkyl, alkylaryl, alkylcarboxy, alkyl ester, alkylamido, alkenyl, alkoxy carbonyl), useful as analgesics (no data), were prepd. 2H-3-Acetyl-4-hydroxy-5,7-dimethylpyrido[3,2-e][1,2]thiazine 1,1-dioxide and MeI are added to NaOMe at room temp. followed by acidification with HOAc to give I (R = R1 = Me) in 60% yield.

IT **121879-81-0P**

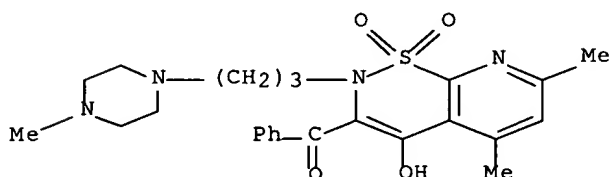
RL: BAC (Biological activity or effector, except adverse); SPN

(Synthetic

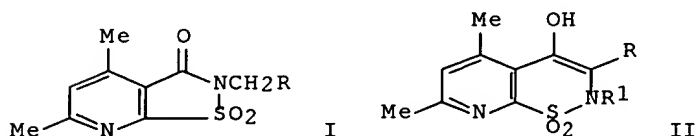
preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as analgesic)

RN 121879-81-0 CAPLUS

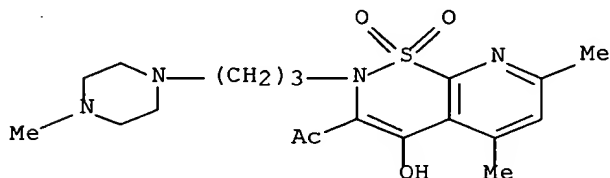
CN Methanone, [4-hydroxy-5,7-dimethyl-2-[3-(4-methyl-1-piperazinyl)propyl]-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS
 AN 1987:407141 CAPLUS
 DN 107:7141
 TI A novel system: 2H-pyrido[3,2-e]-1,2-thiazine-1,1-dioxide. Synthesis and properties of some derivatives
 AU Zawisza, T.; Malinka, W.
 CS Dep. Chem. Drug, Sch. Med., Wroclaw, Pol.
 SO Farmaco, Ed. Sci. (1986), 41(10), 819-26
 CODEN: FRPSAX; ISSN: 0430-0920
 DT Journal
 LA English
 GI

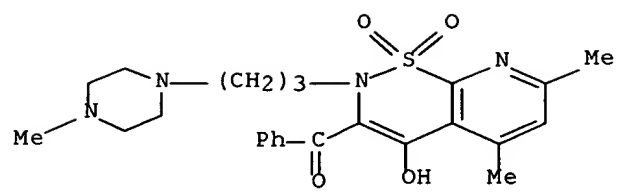


AB Reactions of pyridoisothiazoline dioxides I (R = COMe, CPh) with NaOEt produced rearrangement to give pyridothiazine dioxides II (R1 = H). N-Alkylation of II (R = COMe, CPh; R1 = H) gave II (R1 = Me, allyl, CH2Ph, CH2CO2Et, CH2COPh, CO2Me, etc.). Some II showed strong analgesic activity.
 IT **108586-73-8P 108586-78-3P**
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and analgesic activity of)
 RN 108586-73-8 CAPLUS
 CN Ethanone, 1-[4-hydroxy-5,7-dimethyl-2-[3-(4-methyl-1-piperazinyl)propyl]-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 108586-78-3 CAPLUS
 CN Methanone, [4-hydroxy-5,7-dimethyl-2-[3-(4-methyl-1-piperazinyl)propyl]-1,1-dioxido-2H-pyrido[3,2-e]-1,2-thiazin-3-yl]phenyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

Melting Point:

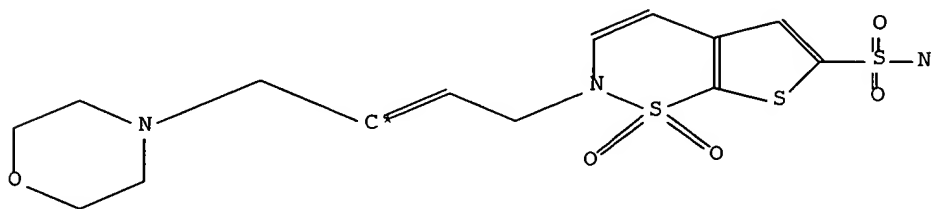
Value	Ref.	Note
(MP)		
(Cel)		
=====+=====+=====		
108 - 112	1	1

Reference(s):

- Chen, Hwang-Hsing; Gross, Sharon; Liao, John; McLaughlin, Marsha; Dean, Tom; Sly, William S.; May, Jesse A., Bioorg.Med.Chem., CODEN: BMECEP, 8(5), <2000>, 957 - 975; BABS-6236312

Notes(s):

- Crystallization with 0.5 Mol(s) H₂O



Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
234 - 236	1

Reference(s):

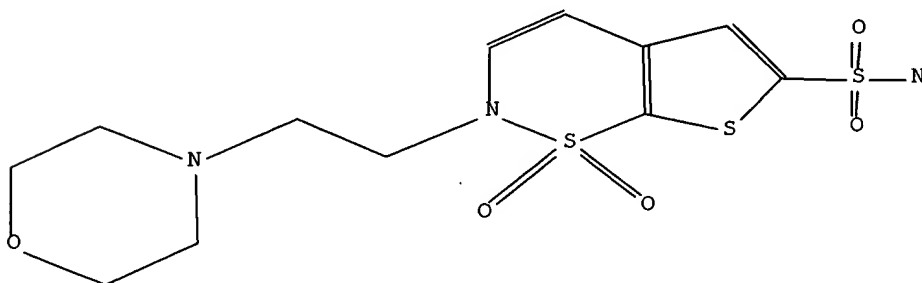
- Chen, Hwang-Hsing; Gross, Sharon; Liao, John; McLaughlin, Marsha; Dean, Tom; Sly, William S.; May, Jesse A., Bioorg.Med.Chem., CODEN: BMECEP, 8(5), <2000>, 957 - 975; BABS-6236312

Nuclear Magnetic Resonance:

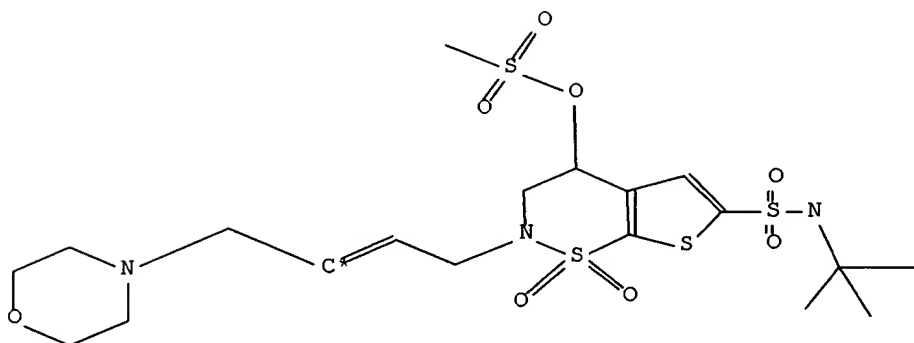
NMR

Coupling Nuclei:	¹ H- ¹ H
Solvents:	dimethylsulfoxide-d6
Frequency:	200 MHz
Reference(s):	

- Chen, Hwang-Hsing; Gross, Sharon; Liao, John; McLaughlin, Marsha; Dean, Tom; Sly, William S.; May, Jesse A., Bioorg.Med.Chem., CODEN: BMECEP, 8(5), <2000>, 957 - 975; BABS-6236312



Beilstein Records (BRN):	8591587
Chemical Name (CN):	methanesulfonic acid 6-tert-butylsulfamoyl-2-(4-morpholin-4-yl-but-2-enyl)-1,1-dioxo-1,2,3,4-tetrahydro-1.lambda.6-thieno<3,2-e><1,2>thiazin-4-yl ester
Autonom Name (AUN):	methanesulfonic acid 6-tert-butylsulfamoyl-2-(4-morpholin-4-yl-but-2-enyl)-1,1-dioxo-1,2,3,4-tetrahydro-1.lambda.6-thieno<3,2-e><1,2>thiazin-4-yl ester
Molec. Formula (MF):	C19 H31 N3 O8 S4
Molecular Weight (MW):	557.71
Lawson Number (LN):	31916, 30824, 3092, 2846, 2705
Compound Type (CTYPE):	heterocyclic
Constitution ID (CONSID):	7281929
Tautomer ID (TAUTID):	8095086
Entry Date (DED):	2000/10/24
Update Date (DUPD):	2000/10/24

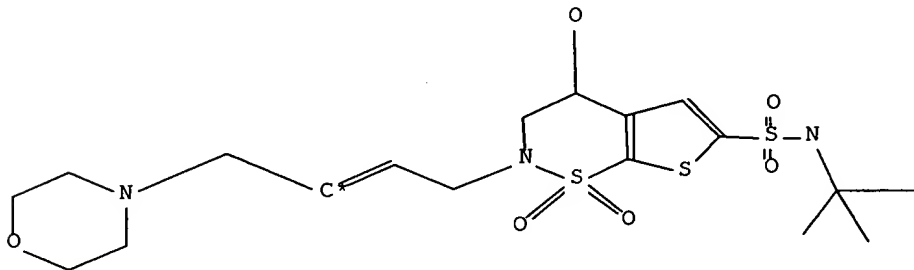


Nuclear Magnetic Resonance:

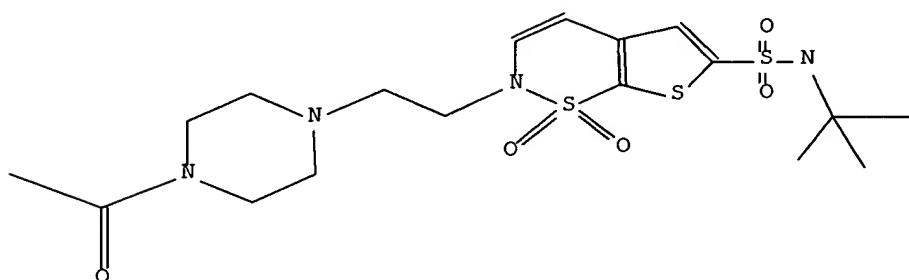
NMR

Coupling Nuclei: 1H-1H
Solvents: dimethylsulfoxide-d6
Frequency: 200 MHz
Reference(s):

1. Chen, Hwang-Hsing; Gross, Sharon; Liao, John; McLaughlin, Marsha;
Dean,
Tom; Sly, William S.; May, Jesse A., Bioorg.Med.Chem., CODEN: BMECEP,
8(5), <2000>, 957 - 975; BABS-6236312



Beilstein Records (BRN):	8587001
Chemical Name (CN):	2-<2-(4-acetyl-piperazin-1-yl)-ethyl>-1,1-dioxo-1,2-dihydro-1.lambda.6-thieno<3,2-e><1,2>thiazine-6-sulfonic acid tert-butylamide
Autonom Name (AUN):	2-<2-(4-acetyl-piperazin-1-yl)-ethyl>-1,1-dioxo-1,2-dihydro-1.lambda.6-thieno<3,2-e><1,2>thiazine-6-sulfonic acid tert-butylamide
Molec. Formula (MF):	C18 H28 N4 O5 S3
Molecular Weight (MW):	476.62
Lawson Number (LN):	31915, 28000, 3018, 2846, 1155
Compound Type (CTYPE):	heterocyclic
Constitution ID (CONSID):	7278087
Tautomer ID (TAUTID):	8084652
Entry Date (DED):	2000/10/24
Update Date (DUPD):	2000/10/24

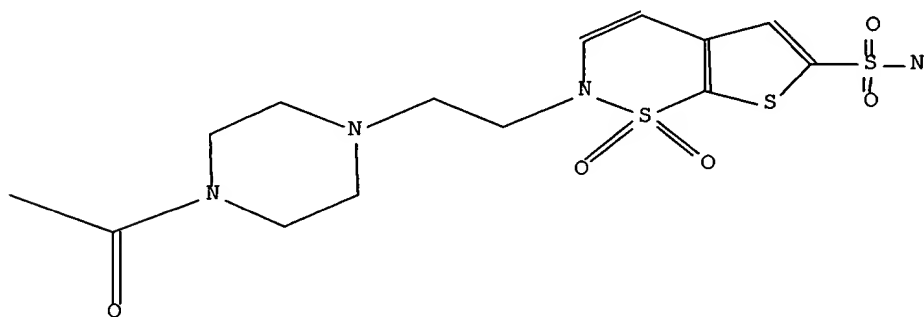


Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
180 - 183	methanol, CH2Cl2	1

Reference(s):

- Chen, Hwang-Hsing; Gross, Sharon; Liao, John; McLaughlin, Marsha; Dean, Tom; Sly, William S.; May, Jesse A., Bioorg.Med.Chem., CODEN: BMECEP, 8(5), <2000>, 957 - 975; BABS-6236312



Nuclear Magnetic Resonance:

NMR

Coupling Nuclei: 1H-1H
 Solvents: dimethylsulfoxide-d6
 Frequency: 200 MHz
 Reference(s):

1. Chen, Hwang-Hsing; Gross, Sharon; Liao, John; McLaughlin, Marsha;
 Dean,
 Tom; Sly, William S.; May, Jesse A., Bioorg.Med.Chem., CODEN: BMECEP,
 8(5), <2000>, 957 - 975; BABS-6236312

NMR

Description: Chemical shifts
 Nucleus: 1H
 Solvents: dimethylsulfoxide-d6
 Frequency: 200 MHz
 Reference(s):

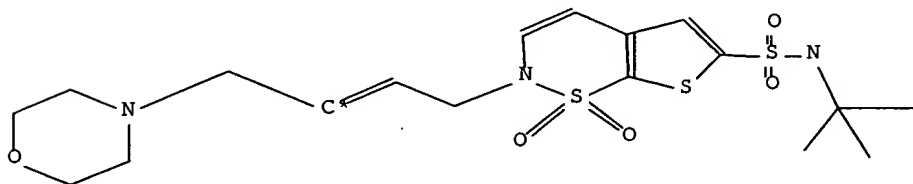
1. Chen, Hwang-Hsing; Gross, Sharon; Liao, John; McLaughlin, Marsha;
 Dean,
 Tom; Sly, William S.; May, Jesse A., Bioorg.Med.Chem., CODEN: BMECEP,
 8(5), <2000>, 957 - 975; BABS-6236312

Beilstein Records (BRN): 8581743

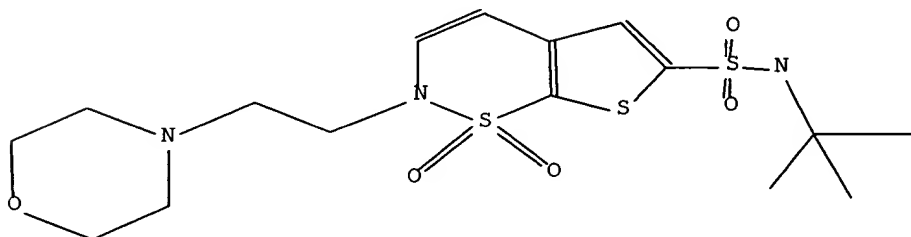
Chemical Name (CN): N-(1,1-dimethylethyl)-2-<4-(4-morpholinyl)-2-

Autonom Name (AUN): butenyl>-2H-thieno<3,2-e>-1,2-thiazine-6-sulfonamide 1,1-dioxide
 2-(4-morpholin-4-yl-but-2-enyl)-1,1-dioxo-1,2-dihydro-1.lambda.6-thieno<3,2-e><1,2>thiazine-6-sulfonic acid
 tert-butylamide

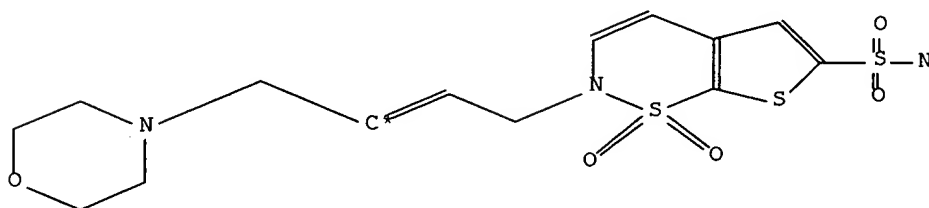
Molec. Formula (MF): C18 H27 N3 O5 S3
 Molecular Weight (MW): 461.61
 Lawson Number (LN): 31915, 30824, 3092, 2846
 Compound Type (CTYPE): heterocyclic
 Constitution ID (CONSID): 7273593
 Tautomer ID (TAUTID): 8072321
 Entry Date (DED): 2000/10/24
 Update Date (DUPD): 2000/10/24



Beilstein Records (BRN):	8579796
Chemical Name (CN):	2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,2-dihydro-1.lambda.6-thieno<3,2-e><1,2>thiazine-6-sulfonic acid tert-butylamide
Autonom Name (AUN):	2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,2-dihydro-1.lambda.6-thieno<3,2-e><1,2>thiazine-6-sulfonic acid tert-butylamide
Molec. Formula (MF):	C16 H25 N3 O5 S3
Molecular Weight (MW):	435.57
Lawson Number (LN):	31915, 30824, 3018, 2846
Compound Type (CTYPE):	heterocyclic
Constitution ID (CONSID):	7271952
Tautomer ID (TAUTID):	8069545
Entry Date (DED):	2000/10/24
Update Date (DUPD):	2000/10/24



Beilstein Records (BRN):	8578151
Chemical Name (CN):	2-<4-(4-morpholinyl)-2-butenyl>-2H-thieno<3,2-e>-1,2-thiazine-6-sulfonamide 1,1-dioxide
Autonom Name (AUN):	2-(4-morpholin-4-yl-but-2-enyl)-1,1-dioxo-1,2-dihydro-1.lambda.6-thieno<3,2-e><1,2>thiazine-6-sulfonic acid amide
Molec. Formula (MF):	C14 H19 N3 O5 S3
Molecular Weight (MW):	405.50
Lawson Number (LN):	31915, 30824, 3092
Compound Type (CTYPE):	heterocyclic
Constitution ID (CONSID):	7270627
Tautomer ID (TAUTID):	8069292
Entry Date (DED):	2000/10/24
Update Date (DUPD):	2000/10/24



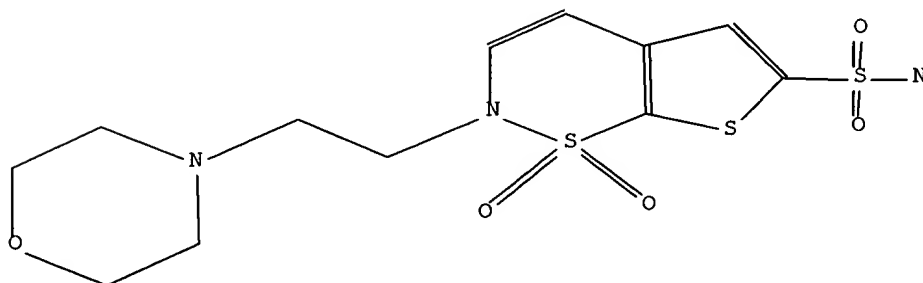
Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
135 - 137	1

Reference(s):

- Chen, Hwang-Hsing; Gross, Sharon; Liao, John; McLaughlin, Marsha; Dean, Tom; Sly, William S.; May, Jesse A., Bioorg.Med.Chem., CODEN: BMECEP, 8(5), <2000>, 957 - 975; BABS-6236312

Beilstein Records (BRN):	8572775
Chemical Name (CN):	2-<2-(4-morpholinyl)ethyl>-2H-thieno<3,2-e>-
Autonom Name (AUN):	1,2-thiazine-6-sulfonamide 1,1-dioxide 2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,2-dihydro-1.lambda.6-thieno<3,2-e><1,2>thiazine-6-sulfonic acid amide
Molec. Formula (MF):	C12 H17 N3 O5 S3
Molecular Weight (MW):	379.46
Lawson Number (LN):	31915, 30824, 3018
Compound Type (CTYPE):	heterocyclic
Constitution ID (CONSID):	7266063
Tautomer ID (TAUTID):	8067316
Entry Date (DED):	2000/10/24
Update Date (DUPD):	2000/10/24

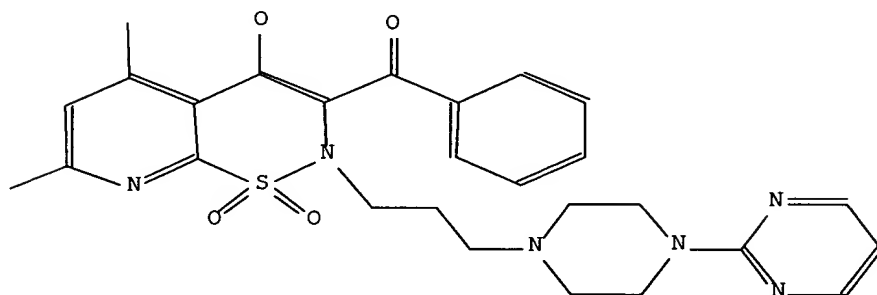


Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
202 - 204	ethanol	1

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, CODEN: FRMCE8, 49(12), <1994>, 783-792;
BABS-5956551



Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		

=====+=====+=====

175 - 177	ethanol	1
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Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, CODEN: FRMCE8, 49(12), <1994>, 783-792; BABS-5956551

Nuclear Magnetic Resonance:

NMR

Description:	Chemical shifts
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Nucleus:	¹ H
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Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, CODEN: FRMCE8, 49(12), <1994>, 783-792; BABS-5956551

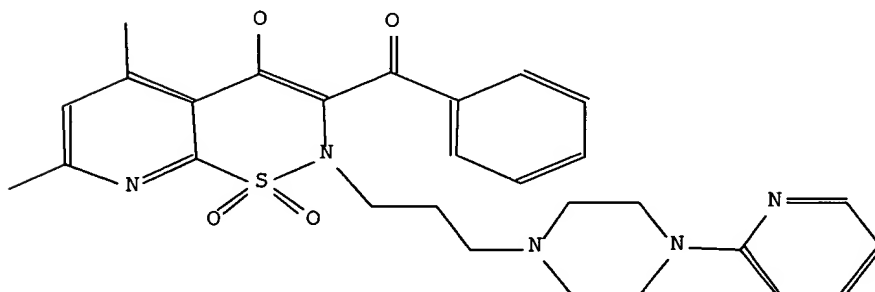
NMR

Description:	Spin-spin coupling constants
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Note(s):	¹ H- ¹ H
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Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, CODEN: FRMCE8, 49(12), <1994>, 783-792; BABS-5956551



Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
189 - 191	ethanol	1

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, CODEN: FRMCE8, 49(12), <1994>, 783-792; BABS-5956551

Nuclear Magnetic Resonance:

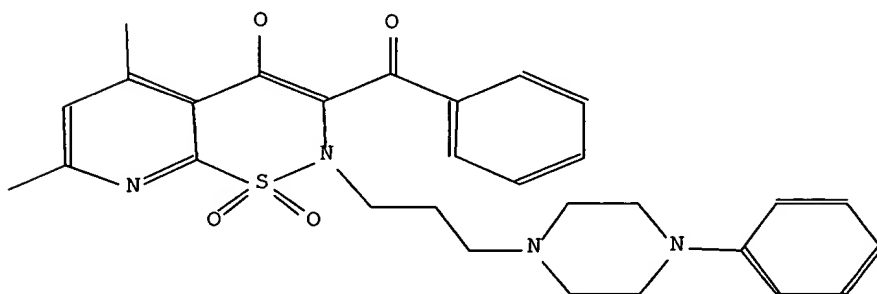
NMR

Description: Chemical shifts

Nucleus: ¹H

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, CODEN: FRMCE8, 49(12), <1994>, 783-792; BABS-5956551

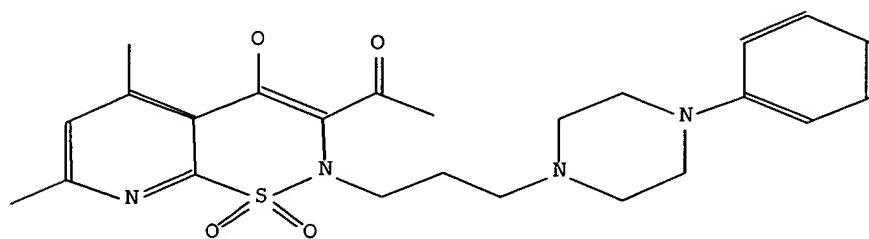


Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
194 - 196	ethanol	1

Reference(s):

1. Malinka, Wieslaw; Sieklucka-Dziuba, Maria; Raitar-Cynke, Grazyna; Borowicz, Kinga; Kleinrok, Zdzislaw, Farmaco, CODEN: FRMCE8, 49(12), <1994>, 783-792;
BABS-5956551



Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
256 - 258	ethanol	1

Reference(s):

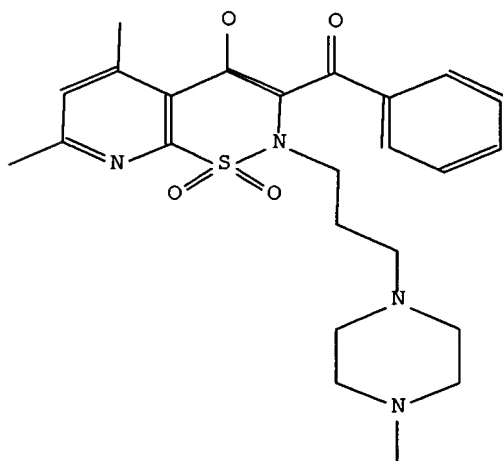
1. Zawisza, T.; Malinka, W., Farmaco Ed.Sci., CODEN: FRPSAX, 41(10), <1986>, 819-826; BABS-5913809

Infrared Spectrum:

Descript	Solvent	Ref.	Note
ion			
(.KW)	(.SOL)		
=====+=====+=====+=====			
Bands	KBr	1	1

Reference(s):

1. Zawisza, T.; Malinka, W., Farmaco Ed.Sci., CODEN: FRPSAX, 41(10), <1986>, 819-826; BABS-5913809



Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
267 - 269	methanol	1

Reference(s):

1. Zawisza, T.; Malinka, W., Farmaco Ed.Sci., CODEN: FRPSAX, 41(10), <1986>, 819-826; BABS-5913809

Infrared Spectrum:

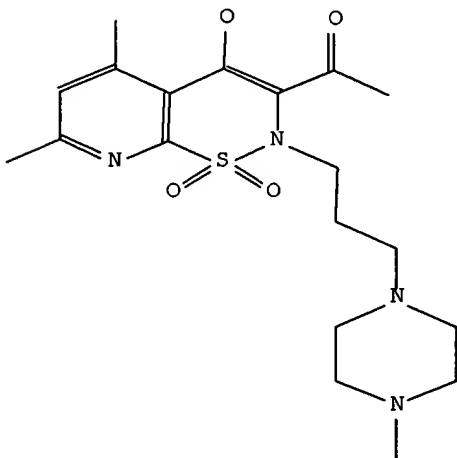
Descriptor	Solvent	Ref.	Note
ion			
(.KW)	(.SOL)		
=====+=====+=====+=====			
Bands	KBr	1	1

Reference(s):

1. Zawisza, T.; Malinka, W., Farmaco Ed.Sci., CODEN: FRPSAX, 41(10), <1986>, 819-826; BABS-5913809

Notes(s):

1. 3480 - 1160 cm⁻¹ (-1)



Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
224 - 227	benzene	1

Reference(s):

1. Malinka, W.; Deren, A., Pol.J.Chem., CODEN: PJCHDQ, 66(12), <1992>, 1953-1960; BABS-5713285

Nuclear Magnetic Resonance:

NMR

Description:

Chemical shifts

Nucleus:

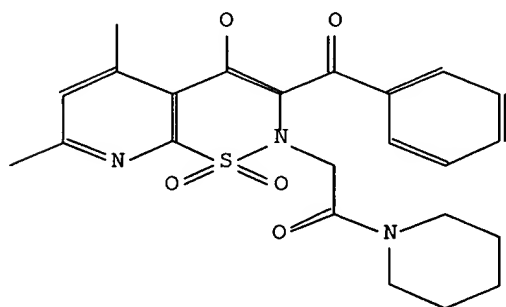
¹H

Solvents:

CDCl₃

Reference(s):

1. Malinka, W.; Deren, A., Pol.J.Chem., CODEN: PJCHDQ, 66(12), <1992>, 1953-1960; BABS-5713285



Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
196 - 198	ethanol	1

Reference(s):

1. Malinka, W.; Deren, A., Pol.J.Chem., CODEN: PJCHDQ, 66(12), <1992>, 1953-1960; BABS-5713285

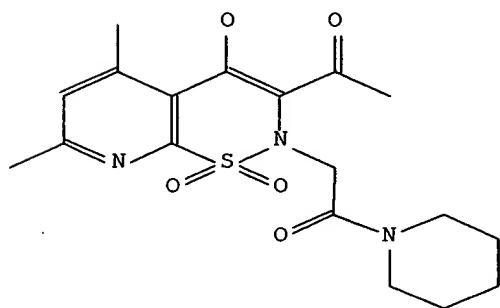
Nuclear Magnetic Resonance:

NMR

Description: Chemical shifts
 Nucleus: 1H
 Solvents: CDCl3
 Reference(s):
 1. Malinka, W.; Deren, A., Pol.J.Chem., CODEN: PJCHDQ, 66(12), <1992>, 1953-1960; BABS-5713285

NMR

Description: Spin-spin coupling constants
 Solvents: CDCl3
 Note(s): 1H-1H
 Reference(s):
 1. Malinka, W.; Deren, A., Pol.J.Chem., CODEN: PJCHDQ, 66(12), <1992>, 1953-1960; BABS-5713285



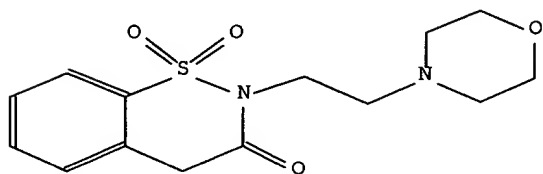
Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
235 - 238	1, 2

Reference(s):

1. Sianesi, E. et al., J. Med. Chem., CODEN: JMCMAR, 16, <1973>, 1133-1137
2. Patent: Recordati S.A. DE 2022694 1970, Chem. Abstr., 74(141829)

FBRN 691238
FMF C14 H18 N2 O4 S



Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
104 - 106	1, 2

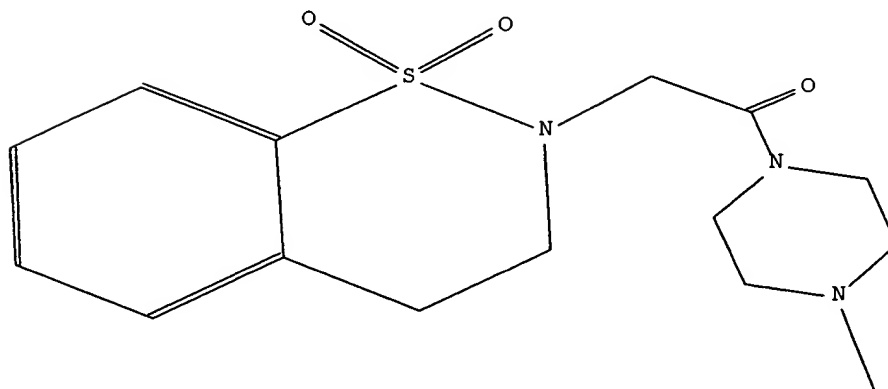
Reference(s):

1. Patent: Recordati SA DE 2124953 1971, Chem.Abstr., 76(72535), <1972>
2. Patent: Recordati SA, Chem.Pharm.Co. US 3770733 1971, Chem.Abstr., 80(48016)

Beilstein Records (BRN):	1224941
Beilstein Pref. RN (BPR):	35263-36-6
CAS Reg. No. (RN):	35263-36-6
Chemical Name (CN):	1-<(1,1-dioxo-3,4-dihydro-1H-1.lambda.6-benzo<e><1,2>thiazin-2-yl)-acetyl>-4-

methyl-

Autonom Name (AUN):	piperazine 2-(1,1-dioxo-3,4-dihydro-1H-1.lambda.6-benzo<e><1,2>thiazin-2-yl)-1-(4-methyl-piperazin-1-yl)-ethanone
Molec. Formula (MF):	C15 H21 N3 O3 S
Molecular Weight (MW):	323.41
Lawson Number (LN):	30877, 28000, 3379, 2817
Compound Type (CTYPE):	heterocyclic
Constitution ID (CONSID):	1186049
Tautomer ID (TAUTID):	1236575
Beilstein Citation (BSO):	5-27
Entry Date (DED):	1988/11/29
Update Date (DUPD):	1992/08/12

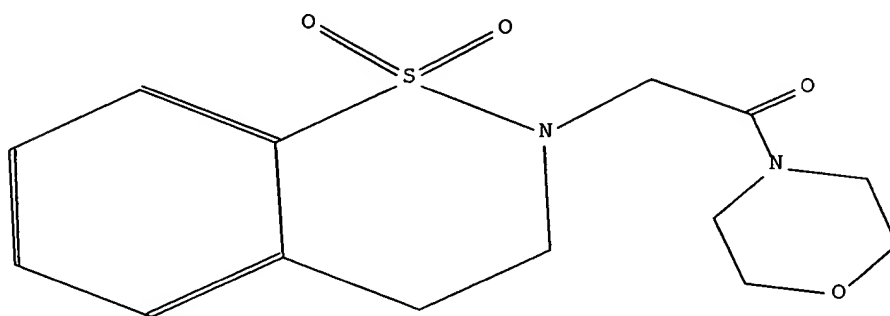


Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
90 - 92	1, 2

Reference(s):

1. Patent: Recordati SA DE 2124953 1971, Chem.Abstr., 76(72535), <1972>
2. Patent: Recordati SA, Chem.Pharm.Co. US 3770733 1971, Chem.Abstr., 80(48016)

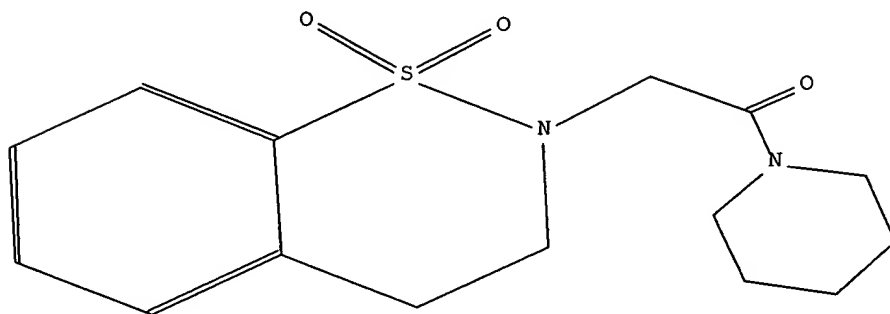


Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
106 - 108	1, 2

Reference(s):

1. Patent: Recordati SA DE 2124953 1971, Chem.Abstr., 76(72535), <1972>
2. Patent: Recordati SA, Chem.Pharm.Co. US 3770733 1971, Chem.Abstr., 80(48016)

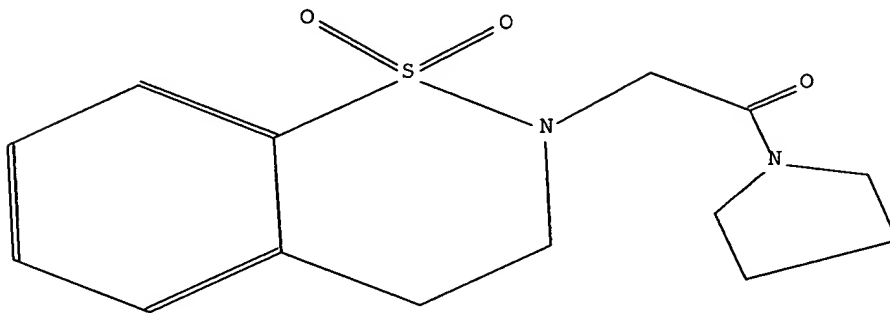


Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
132 - 133	1, 2

Reference(s):

1. Patent: Recordati SA DE 2124953 1971, Chem.Abstr., 76(72535), <1972>
2. Patent: Recordati SA, Chem.Pharm.Co. US 3770733 1971, Chem.Abstr., 80(48016)



Further Information:

FINFO

Reference(s):

1. Patent: Recordati S.A. DE 2022694 1970, Chem.Abstr., 74(141829)

Beilstein Records (BRN): 691238

Chemical Name (CN): 2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,4-dihydro-2H-1.1lambda.6-

benzo<e><1,2>thiazin-3-

one

Autonom Name (AUN): 2-(2-morpholin-4-yl-ethyl)-1,1-dioxo-1,4-dihydro-2H-1.1lambda.6-

benzo<e><1,2>thiazin-3-

one

Molec. Formula (MF): C14 H18 N2 O4 S

Molecular Weight (MW): 310.37

Lawson Number (LN): 31166, 30824, 3018

Compound Type (CTYPE): heterocyclic

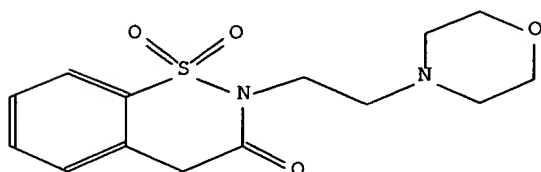
Constitution ID (CONSID): 628350

Tautomer ID (TAUTID): 659824

Beilstein Citation (BSO): 5-27

Entry Date (DED): 1988/11/28

Update Date (DUPD): 1992/11/13



L22 ANSWER 1 OF 9 MARPAT COPYRIGHT 2002 ACS

AN 136:363846 MARPAT

TI Composition comprising serotonin receptor antagonists, 5 HT-2 and 5 HT-3

IN Skogvall, Staffan

PA Respiratorius A.B., Swed.

SO PCT Int. Appl., 123 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002036114	A1	20020510	WO 2001-SE2373	20011030
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

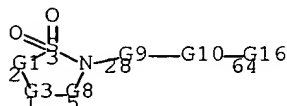
PRAI SE 2000-3996 20001101

US 2000-244662P 20001101

AB A compn. comprising a combination of compds. comprising: (a) at least one

compd. with antagonist activity to the 5-HT₃ receptor; and (b) at least one compd. with antagonist activity to the 5-HT₂ receptor is described. The invention relates to the use of said compn. as a medicament for therapeutic or prophylactic treatment of disorders involving airway constriction in humans or animals.

MSTR 3



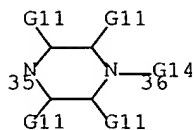
G1 = 8-3 9-1



G3 = CH=CH

G9 = alkenylene

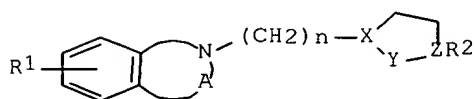
G10 = 35-28 36-64



MPL: claim 2

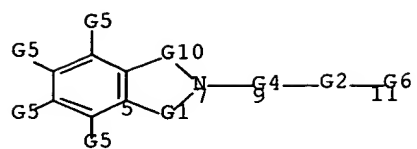
L22 ANSWER 2 OF 9 MARPAT COPYRIGHT 2002 ACS
 AN 136:85830 MARPAT
 TI Preparation of bicyclic lactams and sulfonamides as 5-HT1A agonists
 IN Steiner, Gerd; Schellhaas, Kurt; Szabo, Laszlo; Behl, Berthold;
 Garcia-Ladona, Francisco Javier; Unger, Liliane
 PA Knoll GmbH, Germany
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002002529	A1	20020110	WO 2001-EP7571	20010702
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 10031391	A1	20020207	DE 2000-10031391	20000703
PRAI	DE 2000-10031391		20000703		
GI					

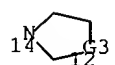


AB Title compds. [I; the ring including NA can be a 5-7 membered ring contg.
 O, S, or double bond; A = CO, SO₂; X = N; Y = CH₂, CH₂CH₂, (CH₂)₃, CH₂CH;
 Z = N, C, CH; n = 2-4; R₁ = H, halo, alkyl, CF₃, OH, alkoxy, amino; R₂ = (substituted) (anellated) Ph, pyridyl, pyrazinyl] and salts thereof,
 were
 prepd. Thus, isoquinoline in DMF was stirred with NaH for 30 min. followed by addn. of 1-[4-(2-chloroethyl)-1-piperazinyl]isoquinoline (prepn. given) and stirring for 2 h at 80.degree. to give 82% 2-[2-(4-(1-isoquinolinyl)-1-piperazinyl)ethyl]-1(2H)-isoquinoline.2HCl.2H₂O. Tested I showed affinity for the 5-HT_{1A} receptor
 with K_i = 0.1-5.4 nM in HEK 293 cells.

MSTR 1



G1 = CH=CH
 G2 = 14-9 12-11



G4 = (2-4) CH2
 G10 = SO2
 MPL: claim 1
 NTE: and physiologically acceptable salts

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 3 OF 9 MARPAT COPYRIGHT 2002 ACS

AN 132:308329 MARPAT

TI Preparation of tricyclic heterocycles as potassium channel openers

IN Carroll, William A.; Agrios, Konstantinos A.; Basha, Fatima Z.; Chen, Yiyuan; Kort, Michael E.; Kym, Philip R.; Tang, Rui; Turner, Sean C.; Yi,

Lin

PA Abbott Laboratories, USA

SO PCT Int. Appl., 181 pp.

CODEN: PIXXD2

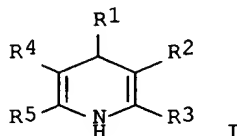
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000024741	A2	20000504	WO 1999-US25536	19991028
	WO 2000024741	A3	20000713		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP	1131322	A2	20010912	EP 1999-970991	19991028
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRAI	US 1998-181239		19981028		
	US 1999-421912		19991020		
	WO 1999-US25536		19991028		

GI



AB Title compds. [I; R1 = aryl or heterocyclyl; R2R3 = D'A'(CHR)_m; R = H or alkyl; R4R5 = DA(CH2)_n; A = O, S, (un)substituted NH; A' = O, S, (un)substituted NH, CH2; D = CH2 or CO; D' = CH2, CO, SO, SO2; m, n = 1-3]

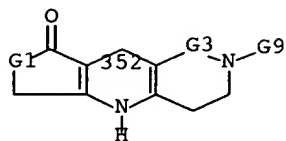
were prepd. Thus, 3,4-BrFC6H3CHO was cyclocondensed with MeCOCH2CO2Et and

NH3 and the brominated product treated with liq. NH3 to give I (R1 = C6H3BrF-3,4, R2R3, R4R5 = CONHCH2). Data for biol. activity of I were given.

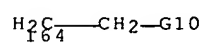
MSTR 1



G3 = S02
G6 = 352



G9 = 164



G10 = morpholino
DER: or pharmaceutically acceptable salts, amides, esters or prodrugs
MPL: claim 1
NTE: additional substitution and ring formation also claimed
NTE: substitution is restricted

L22 ANSWER 4 OF 9 MARPAT COPYRIGHT 2002 ACS

AN 130:196660 MARPAT

TI Benzothiazine derivatives.

IN Mizuno, Akira; Shibata, Makoto; Iwamori, Tomoe; Inomata, Norio

PA Suntory Limited, Japan

SO U.S., 60 pp., Cont.-in-part of U.S. Ser. No. 507,239.

CODEN: USXXAM

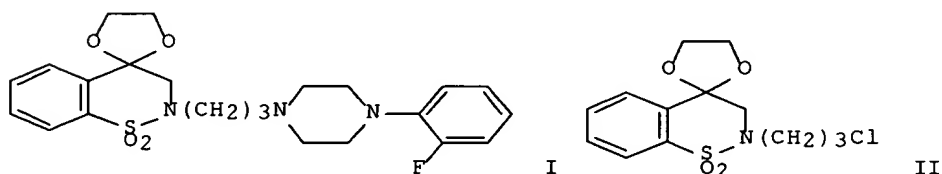
DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5874429	A	19990223	US 1996-669615	19960624
	WO 9518117	A1	19950706	WO 1994-JP2194	19941222
	W: AU, CA, CN, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 09012562	A2	19970114	JP 1995-177976	19950622
	US 6001827	A	19991214	US 1998-192287	19981116
	US 6316442	B1	20011113	US 1999-379853	19990824
PRAI	JP 1993-345865	19931224			
	WO 1994-JP2194	19941222			
	JP 1995-177976	19950622			
	US 1995-507239	19950824			
	US 1996-669615	19960624			
	US 1998-192287	19981116			

GI



AB Benzothiazine derivs. such as I were prepd. as serotonin-2 and .alpha.1 blockers. Thus, 1 mmol of II, 1 mmol of 1-(2-fluorophenyl)piperazine hydrochloride, 4 mmol of NaHCO₃, and 2 mmol of NaI were refluxed in 15

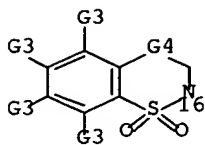
mL

of MeCN for 18 h to give a 50% yield of I. In tests of anti-serotonin activity in the superior mesenteric artery of guinea pigs, I at 10⁻⁷ and 10⁻⁶ M lowered contractions to 38.3 and 7.5%, resp., of control (contractions induced by 10⁻⁵ M serotonin).

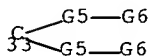
MSTR 1

G1—G12—G14—G13

G1 = 16

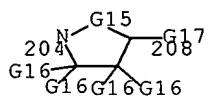


G4 = 33



G12 = alkenylene (SO)

G14 = 204-6 208-1



DER: or salts

MPL: claim 1

NTE: substitution is restricted

NTE: also incorporates broader disclosure

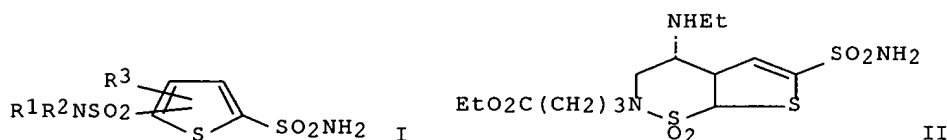
STE: or isomers

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 5 OF 9 MARPAT COPYRIGHT 2002 ACS
 AN 126:144282 MARPAT
 TI Preparation of thieno[3,2-e]-1,2-thiazine-6-sulfonamides useful as carbonic anhydrase inhibitors
 IN Dean, Thomas R.; May, Jesse A.; Chen, Hwang-hsing
 PA Alcon Laboratories, Inc., USA
 SO U.S., 17 pp., Cont.-in-part of U.S. 5,378,703.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5585377	A	19961217	US 1994-362716	19941223
	US 5153192	A	19921006	US 1990-618765	19901127
	ZA 9102580	A	19920129	ZA 1991-2580	19910408
	US 5240923	A	19930831	US 1991-775313	19911009
	US 5378703	A	19950103	US 1993-19011	19930218
PRAI	US 1990-506730	19900409			
	US 1990-618765	19901127			
	US 1991-775313	19911009			
	US 1993-19011	19930218			
	US 1990-506780	19900409			

GI



AB Thiophenesulfonamides [I; R₁ and R₃ are each satd. carbon atoms joined together to form an (un)substituted ring of 6 members; R₂ = C1-8 alkyl substituted with COR₇, C2-8 alkyl substituted with O₂CR₇, NHCOR₇; R₇ = C1-8 alkyl, (un)substituted C1-8 alkyl, C1-4 alkoxy, C2-4 alkoxy, (un)substituted NH₂, Ph or R₁₀; R₁₀ = a monocyclic ring system selected from the group consisting of furan, thiophene, pyrrole, pyrazole, imidazole, triazole, tetrazole, oxazole, isoxazole, isothiazole, thiazole, thiadiazole, pyridine, pyrimidine, pyridazine, and pyrazine] and pharmaceutical compns. contg. the compds. useful in controlling intraocular pressure are disclosed. Methods for controlling intraocular pressure through administration of the compns. are also disclosed.

These compds. are useful as carbonic anhydrase inhibitors and also for treatment

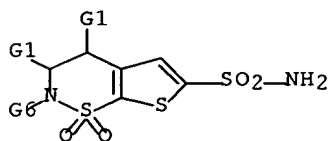
of glaucoma (no data). Thus, (S)-N-(1,1-dimethylethyl)-3,4-dihydro-4-hydroxy-2H-thieno[3,2-e]-1,2-thiazine-6-sulfonamide 1,1-dioxide (prepn. given) was treated with NaH in DMF at 0.degree. for 20 min and alkylated by Et 4-bromobutyrate at room temp. for 6 h to give Et (S)-6-[[[(1,1-dimethylethyl)amino]sulfonyl]-3,4-dihydro-4-hydroxy-2H-thieno[3,2-e]-1,2-thiazine-2-butanoate hydrochloride. The latter compd. was tosylated by tosyl chloride in THF contg. Et₃N and underwent

amination

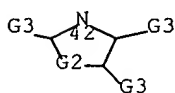
with aq. ethylamine at room temp. overnight, followed by treatment with CF₃CO₂H at room temp. for 18 h to give the title compd. (II.HCl).

Ophthalmic gel, soln., and suspension contg. II.HCl were formulated.

MSTR 1A



G5 = 42



G6 = alkyl<(1-8)> (SR 38)

₃G(O)-G5

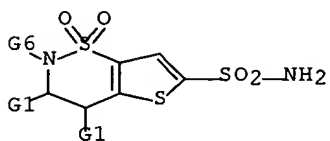
DER: or pharmaceutically acceptable salts

MPL: claim 1

NTE: G3 groups may form oxo

STE: 207-S

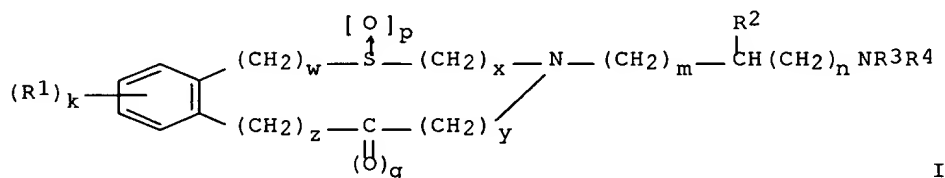
MSTR 1B



G5 = 42

L22 ANSWER 6 OF 9 MARPAT COPYRIGHT 2002 ACS
 AN 124:146182 MARPAT
 TI Preparation of benzothiazine derivatives for inhibiting dysuria
 IN Masaki, Mitsuo; Miyake, Norihisa; Tendo, Atsushi; Ishida, Michiko;
 Shinozaki, Atsuhiko; Nomura, Yutaka; Goto, Yasunori
 PA Nippon Chemiphar Co., Ltd., Japan
 SO PCT Int. Appl., 108 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9526959	A1	19951012	WO 1995-JP632	19950331
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ, VN				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	JP 07278125	A2	19951024	JP 1994-85831	19940331
	AU 9520849	A1	19951023	AU 1995-20849	19950331
	JP 08003152	A2	19960109	JP 1995-100505	19950331
	EP 753514	A1	19970115	EP 1995-913402	19950331
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	CN 1148853	A	19970430	CN 1995-193184	19950331
	US 5773437	A	19980630	US 1996-722112	19960930
	AU 9897203	A1	19990304	AU 1998-97203	19981218
PRAI	JP 1994-85831		19940331		
	JP 1994-103345		19940418		
	AU 1995-20849		19950331		
	WO 1995-JP632		19950331		
GI					



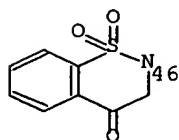
AB The title compds. I [R1 represents hydrogen, alkyl, halogen, haloalkyl, hydroxy, alkoxy, nitro, amino, cyano, etc.; R2 represents hydrogen, alkyl, aryl, etc.; R3 and R4 represent each alkyl, etc., or R3 and R4 are combined together to form an optionally substituted heterocyclic group;
 k represents an integer of 1 to 4; m and n represent each an integer of 0 to 4; p+q = 0 to 4, wherein p is 0, 1 or 2 and q is 0 or 1; and w, x, y and z represent each an integer of 0 to 2, and w+x+y+z = 1 or 2, provided when R1 to R4 represent each a specifically limited group, w+x+y+z may be 0]

are prepd. 2-[3-(4-Phenoxypiperidino)propyl]-2H-1,2-benzothiazin-4(3H)-one 1,1-dioxide hydrochloride (II) was prepd. in several steps starting from 2H-1,2-benzothiazin-4(3H)-one 1,1-dioxide ethylene ketal. II at 1 mg/kg i. v. inhibited urinary bladder contractions in rats.

MSTR 1

G1—G9—G13

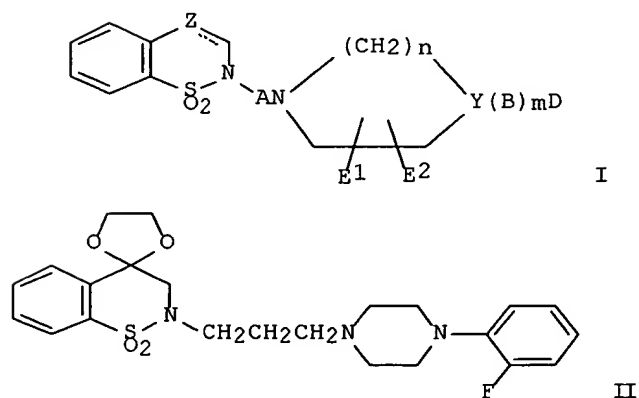
G1 = 46



G9 = alkylene<EC (1-5) C, DC (0) M3> (SO (-1) G10)
G13 = morpholino
MPL: claim 1
NTE: substitution is restricted

L22 ANSWER 7 OF 9 MARPAT COPYRIGHT 2002 ACS
 AN 123:340165 MARPAT
 TI Preparation of benzothiazine derivatives as serotonin 2 antagonists and .alpha.1 blockers
 IN Mizuno, Akira; Shibata, Makoto; Iwamori, Tomoe; Inomata, Norio
 PA Suntory Ltd., Japan
 SO PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 3

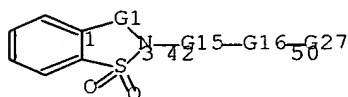
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9518117	A1	19950706	WO 1994-JP2194	19941222
	W: AU, CA, CN, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2156849	AA	19950706	CA 1994-2156849	19941222
	AU 9513710	A1	19950717	AU 1995-13710	19941222
	AU 690622	B2	19980430		
	EP 686632	A1	19951213	EP 1995-903941	19941222
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE	CN 1119859	A	19960403	CN 1994-191572	19941222
	CN 1058492	B	20001115		
	US 5874429	A	19990223	US 1996-669615	19960624
	US 6001827	A	19991214	US 1998-192287	19981116
	US 6316442	B1	20011113	US 1999-379853	19990824
	CN 1281854	A	20010131	CN 2000-103863	20000310
PRAI	JP 1993-345865		19931224		
	WO 1994-JP2194		19941222		
	JP 1995-177976		19950622		
	US 1995-507239		19950824		
	US 1996-669615		19960624		
	US 1998-192287		19981116		
GI					



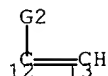
AB The title compds. I [broken line indicates the presence or absence of a

bond; Z represents C(OR1):, etc.; R1 represents alkyl, aralkyl, etc.; A represents alkylene, alkenylene, etc.; Y represents CH, C: or N, provided when Y is CH, then m represents 0 or 1, n represents 1 or 2, and B represents O, S, carbonyl, etc., when Y is C: , then m represents 1, n represents 1 or 2, and B represents :CR6 (wherein the double bond is bound to Y, and R6 represents optionally substituted aryl, etc.), and when Y is N, then m represents 0 or 1, n represents 2 or 3, and B represents carbonyl, etc.; E1 and E2 represent each H or lower alkyl; and D represents an arom. hydrocarbon group, arom. heterocyclic group, etc.] are prepd. The title compd. II (prepn. given) at 10⁻⁷ M in vitro gave 61.7 % inhibition of serotonin-induced contraction of isolated guinea pig artery.

MSTR 1

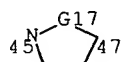


G1 = 12-1 13-3



G15 = alkenylene (SO)

G21 = 45-42 47-63



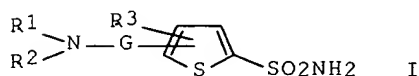
DER: or salts

MPL: claim 1

L22 ANSWER 8 OF 9 MARPAT COPYRIGHT 2002 ACS
 AN 123:83377 MARPAT
 TI Sulfonamides useful as carbonic anhydrase inhibitors
 IN Dean, Thomas R.; Chen, Hwang-Hsing; May, Jesse A.
 PA Alcon Laboratories, Inc., USA
 SO U.S., 25 pp. Cont.-in-part of U.S. 5,240,923.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 4

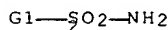
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5378703	A	19950103	US 1993-19011	19930218
	US 5153192	A	19921006	US 1990-618765	19901127
	US 5240923	A	19930831	US 1991-775313	19911009
	US 5679670	A	19971021	US 1994-357623	19941215
	US 5585377	A	19961217	US 1994-362716	19941223
PRAI	US 1990-506780	19900409			
	US 1990-618765	19901127			
	US 1991-775313	19911009			
	US 1990-506730	19900409			
	US 1993-19011	19930218			

GI

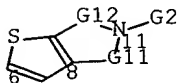


AB Sulfonamides I [R1 and R3 are each satd. carbon atoms joined together to form a ring of 6 members in which said carbon atoms can be unsubstituted or substituted optionally with R4; R2 is e.g., H; C1-8 alkyl; C2-8 alkyl substituted with OH; R4 is e.g., OH; C1-4 alkyl unsubstituted or substituted optionally with OH] and pharmaceutical compns. contg. the compds. useful in controlling intraocular pressure (no data) are disclosed. Methods for controlling intraocular pressure through administration of the compns. are also disclosed. Ophthalmic formulations were given.

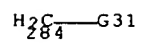
MSTR 2



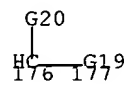
G1 = 6



G2 = 284

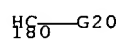


G11 = 176-8 177-11



G12 = SO2

G19 = (0-2) 180



G31 = morpholino

DER: or pharmaceutically acceptable salts

MPL: disclosure

NTE: substitution is restricted

L22 ANSWER 9 OF 9 MARPAT COPYRIGHT 2002 ACS

AN 119:72498 MARPAT

TI Preparation of 1-alkyl-4-(arylmethyl)piperidines and their pharmaceutical

formulations as inhibitors of 5-HT reuptake

IN Damour, Dominique; Labaudiniere, Richard; Malleron, Jean Luc; Mignani, Serge

PA Rhone-Poulenc Rorer SA, Fr.

SO Fr. Demande, 43 pp.

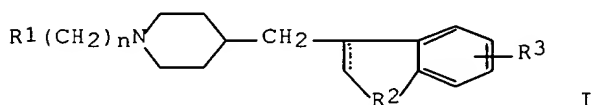
CODEN: FRXXBL

DT Patent

LA French

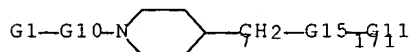
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2675801	A1	19921030	FR 1991-5048	19910424
GI					

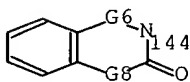


AB Title piperidines I [R1 = OH, (un)substituted Ph, heterocyclyl, R4SO2NR5 (R4 = Ph, quinolyl, R5 = H, alkyl), or N(CO2R8)NHC(O)2R8 (R8 = alkyl); R2 = CH2, CH2CH2, NH, N-alkylimino; R3 = H, halo; R4 = Ph, quinolyl; n = 1-3; partial bond represents single or double C-C bond, where for R2 = NH, it is a double bond, and for R2 = CH2CH2, it a single bond] are prepd. by condensation of an appropriate alkyl halide R1(CH2)nX with 4-(arylmethyl)piperidine. The prepn. of racemates and enantiomers of compds. I contg. at least one chiral center, and their salts with mineral or org. acids, are claimed. Formulations of I for medical use are given (3 examples). The compds. exhibit inhibitory activity of 5-HT recapture.

MSTR 1



G1 = 144



G6 = SO2

G8 = CMe2

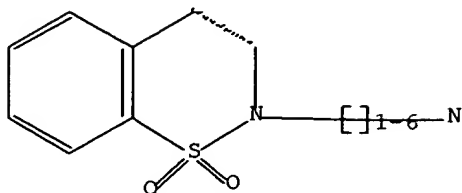
G10 = (1-3) CH2

DER: or (in)organic acid salts

MPL: claim 1

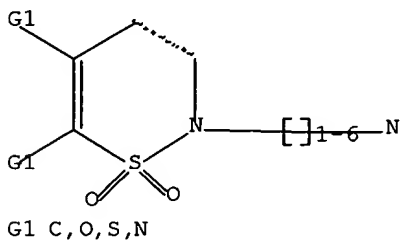
STE: and enantiomers

=> d l1; d l11; d his; log y
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

L11 HAS NO ANSWERS
L11 STR



Structure attributes must be viewed using STN Express query preparation.

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FILE 'REGISTRY' ENTERED AT 17:14:19 ON 08 AUG 2002

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 62 S L1 FUL

FILE 'CAPLUS' ENTERED AT 17:14:55 ON 08 AUG 2002

L4 12 S L3

FILE 'BEILSTEIN' ENTERED AT 17:15:35 ON 08 AUG 2002

L5 0 S L1
L6 6 S L1 FUL
L7 1 S L6 NOT L3

FILE 'MARPAT' ENTERED AT 17:16:29 ON 08 AUG 2002

L8 2 S L1
L9 19 S L1 FUL
L10 14 S L9 NOT L4

FILE 'STNGUIDE' ENTERED AT 17:18:58 ON 08 AUG 2002

FILE 'REGISTRY' ENTERED AT 17:19:57 ON 08 AUG 2002

L11 STRUCTURE UPLOADED
L12 3 S L11
L13 105 S L11 FUL
L14 43 S L13 NOT L3

FILE 'CAPLUS' ENTERED AT 17:20:42 ON 08 AUG 2002

L15 12 S L14

FILE 'BEILSTEIN' ENTERED AT 17:21:22 ON 08 AUG 2002

L16 1 S L11

L17 24 S L11 FUL

L18 24 S L17 NOT L14

FILE 'MARPAT' ENTERED AT 17:22:56 ON 08 AUG 2002

L19 3 S L11

L20 25 S L11 FUL

L21 22 S L20 NOT L15

L22 9 S L21 NOT L10

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

135.55

1225.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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STN INTERNATIONAL LOGOFF AT 17:24:22 ON 08 AUG 2002